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Soil & Groundwater Management Plan

Sudbury to Hudson Transmission



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1.0 INTRODUCTION

Weston & Sampson Engineers, Inc., (Weston & Sampson) has prepared this Soil and Groundwater Management Plan (SGMP), on behalf of Eversource Energy (Eversource), for the Sudbury-Hudson Transmission Reliability Project (the Project). The purpose of this Plan is to summarize the procedures for managing soil, groundwater, and miscellaneous excavated materials during the construction of a new underground electric transmission line from the Hudson Light and Power Department (HLPD) Substation in Hudson to Sudbury Substation in Sudbury, Massachusetts. Once the electric transmission line is installed by Eversource (Phase I of the Project), portions of the Project located on the Massachusetts Bay Transportation Authority (MBTA) Right of Way (ROW) will be further improved and utilized by the Department of Conservation and Recreation (DCR) as part of the Massachusetts Central Rail Trail (MCRT) which is termed Phase II of the Project. Weston & Sampson will be the acting License Site Professional (LSP) for this Project and will represent Eversource prior to and during construction.

This SGMP has been prepared based on available information and data collected as part of Project due diligence, planning, and permitting efforts. It should be noted that additional data will be collected as part of local permit requirements prior to construction. In addition, once a contractor has been selected, specific means and methods to be employed by the contractor may need to be incorporated into this document. As such, this SGMP should be considered a “living” document and may be updated as needed to reflect the latest Project information and data.

1.1 Project Overview

The Project will include installation of a new 115-kilovolt (kv) underground electric transmission line within an inactive MBTA ROW and public roadways in the communities of Hudson, Marlborough, Stow and Sudbury. The Project is a collaborative effort between Eversource and the Massachusetts DCR and will serve the dual purpose of increasing the regional transmission system’s reliability as well as advance a state-wide multi-use trail network initiative. The Project Limits are shown in Figure 1 – Project Area Map. This SGMP is intended for use during the installation of the 115 kv transmission line (Phase I of the Project) only and is not intended for use by DCR during Phase II of the Project.

As shown in Figure 1, the Project is approximately 9 miles long, and is predominately located in Hudson and Sudbury, Massachusetts. In total, the portion of the Project in Hudson is approximately 4.7 miles in length which begins at the HLPD substation and continues along municipal roadways for approximately 1.4 miles to the intersection of Wilkins Street and the inactive MBTA ROW. From this intersection, the Project continues in Hudson approximately 3.3 miles along the existing inactive MBTA ROW to the Hudson/Sudbury municipal border. The Project in Sudbury is approximately 4.3 miles long and is located entirely within the MBTA ROW from the Hudson/Sudbury municipal border to the Sudbury Substation off Route 20. The Project extents in Stow and Marlborough are limited and are confined to the existing MBTA ROW.

The Project will involve excavating and handling soil and groundwater to construct the proposed electric transmission line, install 28 manholes, and complete associated infrastructure improvements along the former MBTA ROW. The proposed electrical transmission line trench will measure approximately five (5) feet wide and 5 feet deep. Manholes will be approximately eight (8) feet wide by 24 feet long by eight (8) feet deep and will be placed approximately every 1,500 to 1,800 linear feet along the Project. It is estimated that the transmission line construction will require managing an estimated 58,000 cubic yards

of excavated soil. Based on the anticipated depth of excavation, the Project will also require groundwater dewatering to complete construction. Procedures for appropriate soil and groundwater management during the Project are outlined in Sections 3.0 and 4.0.

1.2 Project Area Description

For the purposes of this SGMP, the Project is discussed in terms of work areas located in the public right-of-way (herein referred to as the “in-road” portion), and the remaining work areas in the inactive MBTA ROW (herein referred to as the “MBTA ROW” portion). These areas are shown in Figure 1 and described below.

1.2.1 In-Road Portion

The in-road portion of the Project includes portions of public roads, which have been roads since the early 1900s. The in-road portion of the Project begins at the HLDP substation, extends approximately 1.4 miles in Hudson and is bounded by cross streets Wilkins Street and Forest Avenue. As shown in Figure 1, the eastern extent of the in-road portion is characterized primarily by undeveloped or residential land use. The western extent includes mixed residential, undeveloped, commercial, and industrial/manufacturing uses.

1.2.2 MBTA Right-of-Way

The MBTA ROW portion of the Project includes a section of the former Central Massachusetts Railroad from the intersection of Wilkins Street in Hudson to the Sudbury Substation located off Route 20 in Sudbury. Historically used for railroad operations from at least 1881 until 1971, this portion of the Project consists of approximately 3.3 miles in Hudson and 4.3 miles in Sudbury. As shown in Figure 2, the ROW portion includes intersections with several public roads, including Chestnut Street/Marlboro Street, Main Street, Paramenter Street, and White Pond Road in Hudson and Dutton Road, Horse Pond Road, Union Avenue, Boston Post Road and Landham Road in Sudbury.

According to historical aerial photographs, the area surrounding the Project was historically associated with agricultural use or undeveloped until at least 1960; after which residential developments began to appear around the Project area. Industrial property development also occurred between 1965 and 1978 along the portion of the Project located in Sudbury. Since these developments, the general uses abutting the ROW have largely remained the same. Currently, the area surrounding the ROW includes residential areas, commercial developments, wooded areas, and roadways. The MBTA ROW itself is variable in width but is approximately 82 feet wide in most locations. Within the ROW, the former track and underlying ballast occupy a footprint that is approximately 11 feet wide. In most areas, walking paths of variable width also exist. Figure 2 depicts surrounding areas, the MBTA ROW property boundary, and the Project's limits of work.

1.3 Natural Resource Areas

According to available information from the Massachusetts Bureau of Geographic Information (MassGIS), the Project corridor intersects Estimated Habitat designated by the natural Heritage & Endangered Species Program, a Federal Emergency Management Agency (FEMA) 100-year flood plain, freshwater wetlands, Zone II Protection Areas, Protected Open Space, potentially productive aquifers, and medium yield non-potential drinking water source areas. Additionally, there are also potential and certified vernal pools within 500 feet of the Project.

Properties within Hudson and Sudbury are serviced by public water supply wells and a municipal sewer system. Within Hudson, there are four (4) public water supply wells within 1,000-feet of the Project Area. There no public water supply wells within 1,000 feet in Sudbury or Stow; however, a portion of the Project in Sudbury does coincide with a Zone II groundwater public water supply protection area for wells in Sudbury. Wetland resource areas jurisdictional limits within the Project limits are presented on Figure 3.

Because the Project will involve working in or proximate to various natural resource areas or their jurisdictional buffer zones established under the Massachusetts Wetlands Protection Act, Eversource submitted Notices of Intent (NOIs) with Conservation Commissions in the Towns of Hudson, Stow, and Sudbury. The Orders of Conditions (OOC) issued from each Commission specify special conditions for handling soil and groundwater during work within natural resource areas of their buffer zones. These conditions are further discussed in Sections 3.0 and 4.0. Copies of the OOCs are provided in Appendix A.

1.4 Soil & Groundwater Management Scope of Work

The soil and groundwater management activities addressed by this SGMP will be performed under the control and responsibility of Eversource and its LSP during the civil earthwork for the underground transmission line installation and any associated ancillary civil construction such as bridge reconstruction and the construction of an underpass at Chestnut Street. Based on the Project's plans and specifications, work requiring the handling soil and potentially groundwater includes:

- Installation of manholes and duct banks
- Construction of bridge and culvert crossing (Bridge 130 and Chestnut Street underpass required for the MCRT).
- Installation of electrical and signal conduit for MCRT at road crossings
- Rail removal and grading construction platform and installation of stormwater management features, and
- Final grading

It is anticipated that excavation for new transmission lines will require excavating trenches generally five (5) feet wide to depths of five (5) feet below ground surface (ft bgs) and excavating for the installation of 28 manholes every 1,500 to 1,800 feet along the Project's alignment. Each manhole is approximately eight (8) feet wide by eight (8) feet high and 24 feet long. The manhole depth will vary by location, with the base measuring approximately 12 to 15 feet below the proposed final grade. Additional details are provided in the Project's plans and specifications.

1.5 Regulatory Requirements and Applicable Guidance

The soil and groundwater management requirements described in this plan have been developed based on Eversource's *Massachusetts Excess Soil and Groundwater Management Policy* (revised January 2020), the plans and specifications prepared for the Project, and relevant local, state, and federal regulations, policies, and guidance. The due diligence performed, and Project design elements are in accordance with the Massachusetts Department of Environmental Protection (MassDEP) *Best Management Practices for Controlling Exposure to Soil During the Development of Rail Trails* (MassDEP *Rail Trail policy*). The Massachusetts Contingency Plan (MCP) 310 CMR 40.0000 is also the basis for managing OHM encountered on the Project. As noted in this SGMP, additional local, state and federal

requirements may apply during construction of the Project, including MassDEP COMM-97 *Reuse and Disposal of Contaminated Soil at Massachusetts Landfills*.

As noted in Section 1.3, the Project intersects or is adjacent to various natural resource areas. As such, the Project is subject to natural resource/wetland permitting with MassDEP and local conservation commissions in Hudson, Stow, and Sudbury. The activities covered by this plan are subject to various approvals or OOCs imposed by these local and state bodies as well as associated wetland ordinances/bylaws and the MassDEP's Wetland Protection Act Regulations, 310 CMR 10.00. Where these requirements overlap with soil and groundwater management, they are addressed in Section 5.0.

2.0 BACKGROUND

As noted in Section 1.0, the MBTA ROW portion of the Project will be the foundation for a future rail trail completed and maintained by DCR. Given the future use is coupled with the linear nature of the Project and its location predominantly within a former railroad ROW, the MassDEP in their comments to the Environmental Notification Form (ENF) for the Project referenced the use of the *Best Management Practices for Controlling Exposure to Soil During the Development of Rail Trails* guidance document to mitigate potential exposures to OHM for the Project. The specific use of this guidance document was to identify areas of concerns, assess those areas of concern for residual concentration of OHM, and identify best management practices (BMPs) to mitigate potential OHM exposures to construction workers during and future trail users following the Project's completion. Use of the RTG was confirmed during a meeting with the MassDEP Bureau of Waste Site Cleanup staff in 2017.

As described in the RTG, due diligence was conducted between 2015 and 2017 to evaluate potential impacts from known and suspected OHM releases within the project and develop an overall soil and groundwater management strategy that would enable reusing excavated soil where appropriate. Due diligence included review of historic information/photographs, database review of federal, state and local government records, and site reconnaissance to evaluate visual and reasonable identifiable indications of OHM along the Project. Ultimately, the due diligence findings were used to classify segments of the Project as "Rural/Residential" or "Industrial Commercial" as described below:

Rural/Residential

These are stretches along a rail line that border historically residential, undeveloped, or rural properties. These areas are likely to have been affected only by the normal operation of the rail line, with a residual level of contamination. The BMPs outlined in the RTG document are considered appropriate for these locations. Absent evidence of a specific release, segments classified in this group do not require further assessment or sampling and analysis to characterize risk to public health or the environment.

Industrial/Commercial

These are rail trails segments that pass through industrial areas, even the predominantly rural trails of western and central Massachusetts. These stretches have a higher potential for contamination within the right-of-way that is unrelated to the historic railroad use. The BMPs outlined in the RTG document may not be sufficiently protective of public health and the environment at these locations. Further evaluation is needed to establish whether there are site-specific concerns indicating the need for further investigation, including soil testing. Absent a site-specific concern, the RTG indicates that the BMPs outlined in the guidance is appropriate for work in areas designated into this group.

Pursuant to the MassDEP RTG, segments of the Project designated as Industrial/Commercial were targeted, along with the in-road portion of the Project in Hudson, for pre-characterization sampling based on the location of potential sources of OHM, scope of the Project, and associated waste management constraints. Additional justification and clarification on pre-characterization rationale is outlined in the following Sections.

2.1 Environmental Database Review

An environmental database review was completed in 2017 to identify properties and/or known OHM release sites with the potential to impact the Project. The review was completed by VHB using the Environmental Risk Information Services (ERIS) computer database and MassDEP's Bureau of Waste Site Cleanup online data bases. An update was provided to Weston & Sampson by ERIS by in October 2020. A summary of the updated findings is presented below.

Federal Environmental Records			
<i>Record Source</i>	<i>Search Radii</i>	<i>Subject Property Listed</i>	<i>Number of Sites Within Search Distance</i>
National Priorities List (NPL) Sites	1.0 mile	No	0
Safety and Environmental Management System (SEMS) Sites	0.5 miles	No	7
Comprehensive Emergency Response, Compensation, and Liability Information System (CERCLIS) Sites	0.5 miles	No	6
CERCLIS No Further Action Planned (NFRAP) Sites	Property & Abutting	No	4
Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACTS) Sites	1.0 mile	No	0
RCRA Non-CORRACTS Treated, Stored, and Disposed of hazardous wastes (TSD) Sites	0.5 miles	No	1
RCRA Generators	0.25-miles	No	26
RCRA NonGen (No Longer Generating)	0.25 miles	No	28
Engineering/ Institutional Control Sites	Property & Abutting	No	0
Federal Emergency Release Notification System (ERNS)	Property	No	2
Federal Facility Index System (FINDS)	Property	No	10

State Environmental Records			
<i>Record Source</i>	<i>Search Radii</i>	<i>Subject Property Listed</i>	<i>Number of Sites Within Search Distance</i>
SHWS (MassDEP Disposal Sites)	1 mile	No	186
Solid Waste Disposal Sites	0.5 miles	No	3
Leaking Storage Tank Sites	0.5 miles	No	26
Registered Storage Tank Sites	0.25 miles	No	20
Activity Use Limitation Properties	0.5 miles	No	7
Brownfield Sites	0.5 miles	No	5

As shown above, the environmental database review identified various sites along the Project's alignment, including CERCLIS sites, RCRA generators, registered and leaking underground and or aboveground storage tank sites, and MassDEP Disposal Sites. Available information for these Disposal Sites was subsequently reviewed to assess each sites potential to impact the Project, and those sites considered to have potential to impact the Project are discussed below. The 2020 ERIS database report is provided in Appendix B.

2.1.1 Hudson – In-Road & MBTA ROW Portion

The environmental database review identified a total of 104 MassDEP Disposal Sites within a 1-mile radius of the Hudson portion of the Project. Among the 104 sites, a total of six (6) were determined to have the potential to impact the Project and were therefore further evaluated. These sites included one (1) located within the in-road Hudson portion and five (5) sites located in the MBTA ROW Hudson portion of the Project. The last known status of these sites is described below. The sites are listed in order from the Project start to the Hudson/Sudbury municipal border.

Release Tracking Number (RTN) 2-10202 | Figure 2 – Sheet 1

The property located at the western end of the Project with an address of 49 Forest Avenue is identified as Hudson Light and Power Department is listed in the Aboveground Storage Tank (AST), RCRA-Small Quantity Generator (SQG), FINDS, UST, HW GEN, SHWS, and Release databases associated with the property's use as an electrical substation. It should be noted that a second property owned by Hudson Light and Power is also listed in the ERIS report, however this property is located approximately 400 feet North of the Project area and is therefore not considered a concern. The property has two permits for ASTs that are currently active. The property is listed in the RCRA-SQG and RCRALQG databases for the generation of ignitable waste. One former 4,000-gasoline UST was removed from the property in October 1997. No additional information regarding the removal of the UST was obtained. The property is listed in the SHWS and Release databases for the release of 20 gallons of diesel fuel assigned Release Tracking Number (RTN) 2-10202. The release achieved as Class A-1 RAO in April 1994 indicating a Condition of No Significant Risk and contamination was removed to background conditions.

Based on current Site conditions, this Disposal Site is considered unlikely to impact environmental conditions within the Project area; however, we will be continuously evaluating if a potential exists from the current operations of the property as an electrical substation and associated USTs and ASTs during construction.

RTN-2-20907 | Figure 2 – Sheet 2

The property located on Chestnut Street is identified as Chestnut Street Well and is listed in Tier Classified Oil and/or Hazardous Material and Release databases. The property was assigned RTN 2-20907 in August 2016 after PFAS compounds were detected in the Town of Hudson Public Water Supply wells known as Chestnut Street Well #1, Chestnut Street Well #2, Chestnut Street Well #3, and Kane Well. The source of PFAS contamination is unknown, and as a result, MassDEP issued several Request for Information (RFIs) to industrial owners in proximity to PFAS-impacted wells to better identify current and historic use or storage of PFAS materials at these manufacturing facilities.

In July 2019, MassDEP received a PFAS Source Assessment Summary Report from Corporate Environmental Advisors (CEA). The report identified thirteen (13) production and manufacturing facilities within the study area who are potential sources of PFAS. As of January 2020, MassDEP is continuing to

sample monitoring wells surrounding the Hudson Water Supply Wells while waiting for remaining RFI replies.

Based on the conditions at this Disposal Site, there is a potential to impact environmental conditions within the Project area based on the location of the impacted wells and their proximity to the Project as well as the lack of available information regarding potential PFAS sources from industrial property use in the area. We will be continuously evaluating the potential for impacts associated with this RTN to encroach on the Project area as more information becomes available; however, no impacts have yet been identified.

RTN-2-20923

The property located on 308 Chestnut Street is identified as Chestnut Street PFAS is listed in the Release database. The property was assigned RTN 2-20923 in June 2019 following the detection of PFAS in the on-site private drinking water well. Subsequent investigations identified PFAS in several other private wells within 599 feet of the 308 Chestnut Street property; requiring MassDEP to provide bottled drinking water and install point of entry treatment (POET) systems. As of March 2020, MassDEP continues to monitor and sample these POET systems, with limited additional investigation performed to assess the nature and extent of the PFAS impacts. The source of PFAS contamination is currently unknown; however, the property is located approximately 4,300 feet to the south-southwest of Project.

Based the location of the impacted well and the proximity to the Project, this Disposal Site is considered unlikely to impact environmental conditions within the Project area. We will be continuously evaluating the potential for impacts associated with this RTN to encroach on the Project area.

RTN 2-68 & 2-16560 | Figure 2 – Sheet 3

The property located at 555 Main Street in Hudson identified as Arrow Automotive Industrial Incorporated was listed in the LAST, LUST, Spills, RCRA Non-Gen, and SHWS databases. The property was assigned RTN 2-68 in 1987 due to historical volatile organic compound (VOC) impacts from leaking storage containers. Subsequent assessment activities identified VOCs in groundwater across the property and downgradient of the property to the north and northwest. A Class C-1 RAO (i.e. Temporary Solution) was submitted in May 2000 and later revised in April 2001 to include revisions such as the abutting properties connection to municipal sewer.

According to available records, in the course of investigation RTN 2-68 additional VOC exceedances in groundwater were identified and assigned RTN 2-16560. This Disposal Site was linked to the primary RTN and all response actions are being conducted under the Temporary Solution for RTN 2-68. According to the most recent status report submitted in August, concentrations of VOCs appear to be decreasing, but remain above applicable regulatory standards.

Based on the regulatory status of the property, the proximity to the Project area, and the north – northwesterly flow of groundwater towards to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN-2-275 | Figure 2 – Sheet 3

The property located at 560 Main Street is identified as M&M Drilling Kane Perkins was listed in the RCRA-Conditionally Exempt Small Quantity Generator (CESQG), RCRA Non – Gen, Spills, UST, Release and SHWS (i.e. MassDEP Disposal Site) databases. The property was assigned RTN 2-275 in

September 1987 for the discovery of approximately thirty (30) 55-gallon drums containing oil. Upon further assessment, it was determined that petroleum impacts from the 55-gallon drums was only limited to surficial soils up to 2 feet below ground surface (bgs). Petroleum-impacted soil was removed from the property during Release Abatement Measure (RAM) activities. The disposal site achieved a Class A-2 Release Action Outcome (RAO) in June 1995, which indicates that a Condition of No Significant Risk was achieved; however, contaminant concentrations were not reduced to background. Also, the disposal site boundaries appear to encroach upon the Project Area.

Based on residual contamination still being present and the proximity to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

566 Main Street | Figure 2 – Sheet 3

The property identified as Rich's Auto Parts Incorporated located at 566 Main Street situated directly north of the Project area is listed in the FINDs, ICIS, and RCRA Non-Gen databases. Although no documented releases are recorded for the property, the industrial operations conducted at the property have the potential to have resulted in undocumented releases of OHM. with the potential to impact environmental conditions within the Project area.

Based on industrial operations performed near the Project, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN-2-248 & RTN 2-20439 | Figure 2 – Sheet 3

The property located at 51 Parmenter Road is identified as Boyd Coatings Research Co., Inc. and is listed in RCRA Small Quantity Generator (SQG), Tier Classified Oil and/or Hazardous Material and Release databases. The property was assigned RTN 2-248 in May 1987 and RTN 2-20439 in January 2018.

RTN 2-248 was assigned after detecting trichloroethylene (TCE), 1,2-dichloroethylene (DCE), ethylbenzene, and xylenes in water samples. In July 1987, the equivalent of a Phase I and Phase II report was submitted to DEP identifying an abandoned septic tank east of the building as the source of TCE contamination in the form of a one-time release. This resulted in further assessment in the form of periodic sampling which suggested the source of the contamination was no longer present as concentration continuously decreased over time. In 1994, the only VOC detected was toluene at concentration well below the Reportable Concentration which led to the property being classified as Tier IA (now retired) and achieving a Class B-1 RAO indicating no further action is warranted because a level of No Significant Risk exists.

In January 2018, MassDEP assigned a new RTN, 2-20439, to the property after sampling of the Town of Hudson's Cranberry Bog Supply Well identified perfluoralkyl substances (PFAS). According to the Notice of Responsibility (NOR), the RTN was assigned to the property due to its proximity to the supply wells and because MassDEP believed that historic industrial operations at property involved PFAS. As such, a NOR was issued to the former owner/operator, Boyd Coatings, as well as the current owner (Dylan Limited Partnership) and operator (Precision Coating Co., Inc.). The NOR also indicated that the PFAS detection constituted a Condition of Substantial Release Migration (SRM), requiring Immediate Response Actions (IRA) under the MCP.

In response to the NOR, IRA activities were initiated to investigate the nature and extent of PFAS impacts. To date, the IRA-related investigation activities have identified PFAS compounds in soil at the property, groundwater wells at or near the property, stormwater runoff from the property, and in drinking water samples collected from the Cranberry Bog supply well and twenty-two (22) nearby private wells.

Based on the PFAS investigations conducted to date identifying PFAS-impacted groundwater in the area surrounding the property, including to the north and south of the MBTA ROW portion of the Project, this Disposal Site has the potential to impact environmental conditions within the Project area. We will be continuously evaluating the potential for impacts associated with this RTN to encroach on the Project area.

2.1.2 Stow – MBTA ROW Portion

The environmental database review identified a total of eight (8) MassDEP Disposal Sites within a 1-mile radius of the Project in Stow. Among the eight (8) sites, a total of four (4) sites were determined to have the potential to impact the Project. A summary of the sites last known status are listed below.

RTN 2-722 | Figure 2 – Sheet 4

The property identified as Fort Devens Training Annex in Stow was listed in the Superfund and SHWS databases. The property was assigned RTN 2-722 in January 1990 for the identification of 73 study areas and areas of concern (AOCs), which had evidence of contamination from a variety of sources. The Disposal Site identified as AOC 10 and P32 was identified as a location of a railroad pit and former UST area where residents in the area reportedly dumped waste automotive oil. The former USTs have been pumped out and filled with water and the property is included in an arsenic investigation. The Disposal Site is listed as Adequately Regulated due to the Disposal Site status as an EPA Superfund Site. The listing was removed from the Superfund National Priorities List (NPL) in 2002.

Based on its former status as a Superfund Site and the proximity to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN-2-20337

The property located at 220 and 216 Barton Road is identified as Barton Road Neighborhood is a residential area listed in the MassDEP Disposal Site Release database. The property was assigned RTN 2-20337 in October 2017 after the Nashoba Board of Health informed MassDEP of the discovery of chlorinated solvents, including trichloroethene (TCE) and 1,4-dioxane, at concentrations above drinking water standards in three (3) private drinking water wells. Upon further assessment, it was determined that multiple surrounding properties were also affected, although the source of the contamination is unknown.

In response to detecting contaminants in the several private drinking water wells, MassDEP installed POET systems at several affected properties, which they continue to monitor to ensure the effective removal of TCE and other contaminants of concern. To date, limited additional investigation to evaluate the nature extent of contamination has been performed.

Based on the closest affected private drinking water well located approximately 3,600 feet north of the Project, this Disposal Site is considered unlikely to impact environmental conditions within the Project area.

RTN-2-21045

The property located at 664 Sudbury Road is a Massachusetts Department of Fire Services (DFS) Firefighting Academy and is a listed MassDEP Disposal Site that was assigned RTN 2-21045 in October 2019. The RTN was assigned after results from a September 2019 PFAS investigation by MassDEP identified a Condition of Substantial Release Migration (SRM) associated with PFAS detected in surface water at White Pond. Additional investigations subsequently detected elevated total PFAS concentrations in soil, groundwater, sediment, and surface water samples collected at the property.

In December 2019, GZA Geoenvironmental, Inc. prepared and submitted an initial Immediate Response Action (IRA) Plan, which include provisions for conducting additional investigations to assess the nature and extent of PFAS. Based on the investigations conducted to date, the source of PFAS-impacted areas on property is believed to be historic use of aqueous film-forming foams (AFFF) during historic fire training exercises and the introduction of PFAS-impacted water from the existing potable water supply system (White Pond). The main impacted media and migration pathway for PFAS compounds appears to be movement through the wetland area at the western end of property toward surface water bodies; although, groundwater on property is also impacted and generally flows from the northeast to southwest towards White Pond.

Based on the property's proximity to the Project area being approximately 4,600 feet to the north-northeast, this Disposal Site is considered unlikely to impact environmental conditions within the Project area.

RTN-2-21116

The property located at 501 Gleasondale Road is identified as Gleasondale Mill is listed in the MassDEP Disposal Site Release database. The property was assigned RTN 2-21116 in December 2019 after an investigation of PFAS detected in Hudson's Chestnut Street public water supply resulted the detection of PFAS in private supply well and additional monitoring wells on property. The source of PFAS in groundwater is unknown; however, based on previous groundwater sampling locations, a potential source area may be located on the southern portion of the property.

In August 2020, Stow Industrial LLC, current owner and operator of property, submitted an IRA plan to MassDEP addressing the presence of PFAS in groundwater and associated SRM condition. Conditional approval of IRA plan was granted in September 2020. IRA activities are currently ongoing, which include limited on-site soil and groundwater testing and off-site testing of several private water supply wells. According to MassDEP records, the IRA-related sampling has yet to be conducted.

Based on the property's proximity to the Project area being approximately 3,200 feet to the north, this Disposal Site is considered unlikely to impact environmental conditions within the Project area; however, conditions associated with the site will be continuously evaluated.

2.1.3 Sudbury – MBTA ROW Portion

The environmental database review identified a total of 59 MassDEP Disposal Sites within a 1-mile radius of the Project in Sudbury. Among the 59 sites, a total of five (5) were determined to have the potential to impact the Project. A summary of the sites last known status are listed below in order from the Hudson/Sudbury municipal border to the Sudbury Substation off Route 20.

RTN 3-24573 | Figure 2 – Sheet 5

The property identified as Former Rod and Gun Club located at 33 Bulkley Road was listed in the CERCLIS, SEMS, Spills, and Release databases. The property was assigned RTN 3-24573 in January 2005 for the identification of lead in surficial soils associated with the property's former operation as a recreational shooting range. Impacted soils were removed and confirmatory soil sampling determined that all lead concentrations were below the applicable standards. A Class A-1 RAO was submitted in March 2005, which indicates that a Condition of No Significant Risk was achieved, and contamination has been reduced to background.

Based on the property's current regulatory status, this Disposal Site is considered unlikely to impact environmental conditions within the Project area.

RTNs 3-3037 & 3-27243 | Figure 2 – Sheet 7

The property located at 528 Boston Post Road was listed in the RCRA-TSD and SHWS databases for the property's use as a Raytheon facility. The property was assigned RTN 3-3037 in April 1990 due to the presence of chlorinated volatile organic compounds (cVOCs) such as Trichloroethene (TCE) in groundwater. In addition, a release of 35 gallons of No. 2 heating oil occurred at the property in 1987, which was also addressed under RTN 3-3037. It was determined that release conditions did not warrant inclusion in the MassDEP's Locations to be Investigated List for potential Disposal Sites in 1990 as all soil concentrations were below regulatory standards in effect at the time. RTN 3-3037 achieved regulatory closure with MassDEP in 1997 under the condition of Pending No Further Action.

Raytheon continued to monitor groundwater quality at the property until 2007 when the elevated concentrations of cVOCs in groundwater were reported to MassDEP and assigned RTN 3-27243. In November 2008, the Disposal Site achieved a Class C-1 RAO, which is a Temporary Solution consisting of periodic groundwater sampling to monitor for natural attenuation. The most recent Class C-1 RAO Status Report in March 2017 for the Site indicated that all groundwater concentrations were below the applicable standards.

Between November 2016 and August 2018, several RAM Plans were filed on behalf of private developers to manage contaminated materials during redevelopment of the former Raytheon industrial facility. According to latest Post-Temporary Solution Status report filed for RTN 3-27243 in November 2018, the RAM activities/site redevelopment have had little impact on overall site conditions. Isolated areas of elevated CVOC concentrations exceeding the GW-1 standards continue to persist at the site.

Based on the site's location, the northwesterly flow of groundwater towards the Project area, and the regulatory status of the property, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN 3-74 | Figure 2 – Sheet 7

The property located at 33 Union Avenue identified as Coatings Engineering was listed in the RCRA Non-Gen, RCRA-Small Quantity Generator (SQG), UST, Spills, and SHWS databases. A least 10 former USTs were located on the property there had been removed by June 1987. The property was assigned RTN 3-74 in February 1986 for the identification of elevated levels of cVOCs in groundwater at the Disposal Site due to the former manufacturing of coated wire products. Groundwater monitoring was conducted from 2002 until 2012 to evaluate cVOC concentrations under Remedy Operation Status (ROS). A Class C-2 RAO (i.e. Temporary Solution) was submitted in April 2014. According to the most

recent Status Report submitted for the Site in April 2017, elevated levels of cVOCs were detected above the Method 1 GW-1 Standard in a monitoring well identified as RIZ-1 located approximately 75 feet south of the Project area with the Disposal Site boundary extending into the southern portion of the Project. Depth to groundwater at the property ranges from approximately 1.26 to 6.13 ft bgs.

Based on the regulatory status of the property and the location of the Disposal Site within the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN 3-2640 | Figure 2 – Sheet 7

The property located at 39 Union Avenue identified in Mullen Lumber was listed in the Release database and assigned RTN 3-2640 in 1990 for the identification of 1,1,2-trichloroethane and 1,2-dichloroethane within groundwater at the property. The Disposal Site boundary is directly along the boundary between 39 Union Avenue and the Project area and is therefore conservatively assumed that impacts extend into the Project area. Reports infer that impacts are a result of groundwater migration from RTN 3-74 discussed above but the site is not eligible for a Downgradient Property Status (DPS). A Class C-1 RAO (i.e. Temporary Solution) was submitted in August 1997. According to the Five-Year Periodic Review of the Temporary Solution submitted in December 2012, groundwater at the Disposal Site continues to exceed the applicable Method 1 GW-1 standards in wells located closest to the Project area. Depth to groundwater at the Disposal Site ranges from approximately 1.21 to 6.89 ft bgs.

Based on the regulatory status of the property, depth to impacted groundwater at this property and the close proximity to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

38-40 Station Road | Figure 2 – Sheet 7

The property identified as Mosher Auto Body located at 34 Station Road situated directly north of the Project area is listed in the FINDs databases for the property's use as an automotive repair shop. The property is also listed in the RCRA-CESQG database for the property's generation of ignitable waste and nonhalogenated solvents. The property has received several written informal violations regarding the generation of this waste.

Based on the history of violations and the close proximity of hazardous materials storage to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN 3-15581 | Figure 2 – Sheet 7

The property identified as Mill Village located at the intersection of Concord Road and Boston Post Road in Sudbury, north of the Project area is listed as having achieved a Class B-1 RAO on September 29, 1997. Chlorinated solvents, specifically vinyl chloride, were identified on the property in exceedance of MCP thresholds in 1994 but not reported until 1997.

Based on current regulatory status, this Disposal Site is unlikely to impact environmental conditions within the Project area.

RTN 3-33240 | Figure 2 – Sheet 8

The property located at 209 Boston Post Road was listed in the LUST, Spills, UST, and Release databases. Four USTs were formerly located at the property and two USTs are currently in use. RTN 3-33240 was assigned in November 2015 for the identification of petroleum constituents in soil following

the removal of a UST. During assessment activities, over a foot of separate-phase petroleum product (gasoline) was identified in groundwater at the property. Following the completion of a Phase I Investigation Report and Phase II Comprehensive Site assessment the limits of the LNAPL were defined, impacted soil has been removed, and the Disposal Site was classified as a Tier II Disposal Site. The Phase III Feasibility Study and Remedial Action Plan report concluded and selected a down well skimmer remedial solution as the best available technology for LNAPL recovery. According to the RAM Completion Report submitted in June 2020, approximately 639 gallons of LNAPL have been collected from several monitoring wells installed on site, including wells located approximately 150 feet north of the Project. The remedial system was constructed and online by July 2020, and since its startup has recovered approximately 73 gallons of LNAPL as of October 2020, as stated in the latest Phase IV Status Report and Remedial Monitoring Report submitted in November 2020. Regulatory closure has not been achieved and periodic monitoring will continue to determine the effectiveness of the system to recover and control NAPL migration potential.

Based on the regulatory status of the Disposal Site and the proximity to the Project area, this Disposal Site has the potential to impact environmental conditions within the Project area.

RTN 3-27224 | Figure 2 – Sheet 8

The property identified as Sudbury Automotive located at the intersection of Route 20 and Landham Road is listed in the historical leaking underground storage tank (LUST), SHWS, and Spill databases for a release of gasoline from a former UST at the property. Approximately 50 to 100 gallons of gasoline impacted soil at the property due to an overfill. The Spill ID is N91-1290 and the spill has since achieved closure. A release identified under RTN 3-27224 occurred at the property in October 2007 and achieved closure under a Utility-Related Abatement Measure (URAM) in March 2008.

Based on the release impacts limited to soil and the location of the Disposal Site greater than 250 feet north to the Project area, this Disposal Site is considered unlikely to impact environmental conditions within the Project area. However, conditions associated with LUST closure are unknown and may present a risk to environmental conditions within the Project area, which was already identified as a concern under RTN 3-33240.

2.1.4 Environmental Database Review Summary

As described in the preceding sections, the environmental database review identified 15 sites with the potential to affect soil and groundwater conditions along the Project. The 2017 environmental database review results were subsequently used to inform site reconnaissance according to DEP's RTG of the MBTA ROW portion of the Project, which is described in Section 2.1.5. Results were also used to inform soil and groundwater pre-characterization, with locations preferentially selected near sites of potential concern. Soil and groundwater pre-characterization is described in Section 2.2.

2.2 Site Reconnaissance & ROW Classifications

Based on the findings above, a site reconnaissance was conducted by VHB in 2015 and 2017 to evaluate site conditions for the MBTA ROW portion of the Project for visual and/or reasonably identifiable indicators of OHM. The site reconnaissance identified the former rail line along the entire length with rail spurs noted in several locations. Urban fill material (i.e., soil containing asphalt, bricks and debris) was also observed in addition to coal slag at the Geasondale Station.

2.2.1 Railroad ROW History

According to historical railroad plans, the former railroad was historically owned and operated by the Boston and Maine Railroad, and there were five former railroad stations adjacent or within the Project area.

Station	Town	Location	Years of Operation
Gleasondale	Hudson	Along Chestnut Street	1881 to 1965
Ordway		Along Parmenter Road	1902 to 1965
Wayside Inn	Sudbury	Along Dutton Road	1881 to ~1940
South Sudbury		97 Union Road	1881 to 1971
East Sudbury		Along Landham Road	1887 to 1971

As noted previously, the Central Massachusetts Railroad operated from at least 1881 until 1971. According to historic records, construction of the railroad line began in 1870 and was acquired by the Boston and Maine Railroad by 1887. Records also indicate there were historic train derailments within the Project Area in 1955 and 1978, and that the Wayside Inn Station in Sudbury was destroyed by a fire in 1940. These events may have contributed to the presence of oil and/or hazardous materials (OHM) in the ROW.

2.2.2 ROW Classifications

Pursuant to MassDEP RTG and findings of the 2017 environmental database review and site reconnaissance, the MBTA ROW portion of the Project was divided into Rural/Residential and Industrial/Commercial segments. Four (4) segments were established which are shown on Figure 2 and further discussed below:

- Segment 1 Rural/Residential** - extends from the beginning of the MBTA ROW portion of the Project in Hudson at STA 100+00 to approximately STA 150+00, and is classified as Residential, Rural, or Undeveloped. According to historical information, only one railroad station was located within this segment. Based on review of available documents, there are no reported releases associated with this station; however, coal slag was identified at the former Gleasondale Station during site reconnaissance. As outlined in the RTG, due to the presence of potential contamination at the station location, additional assessment is recommended with isolated soil testing at this location. However, with exception of the Gleasondale Station (STA 130+00 to 132+76), the remainder of the segment is considered likely to have been affected only by normal operations of the rail line, with a residual level of contamination. The BMPs outlined in the RTG are appropriate for the remaining portion of the segment due to the absence of any releases within this area.
- Segment 2 Industrial/Commercial** - includes the portion of the MBTA ROW in Hudson, extending from STA 150+00 to STA 307+70, and is defined as an Industrial Corridor due to the industrial nature of the surrounding properties and the presence of four (4) nearby Disposal Sites with the potential to impact the Project are located within this segment (see Figure 2 – Sheets 2 and 3). Additionally, there are various industrial businesses that use hazardous materials in their day-to-day operations, including a concrete plant, plastic manufacturer, an automotive repair facility, that abut the Project. Therefore, this stretch is considered to have a higher potential for contamination beyond what is expected for normal rail line use. According to historical information, only one railroad station is located within this segment, and based on visual

observations and a review of available documents, there is no known releases or evidence of contamination associated with the Ordway Station.

- **Segment 3 Rural/Residential** - begins at STA 307+70 in Hudson, passes through Stow and ends at approximately STA 569+61 in Sudbury. Segment is defined as Residential, Rural, and Undeveloped with exception of the Fort Devens Training Annex RTN 2-722 (STA 360+15 to 362+90). Based on the environmental database review, there are two Disposal Sites within this segment; neither of which is expected to impact the Project.
- **Segment 4 Industrial/Commercial** - runs from STA 569+61 to the Project end at STA 767+20.85. This segment of the Project area is defined as an Industrial Corridor due to the industrial nature of the surrounding properties and proximity of multiple Disposal Sites. As depicted on Figure 2 – Sheets 7 and 8, five of the Disposal Sites with the potential to impact the Project are located within this segment. According to historical information, the segment also contained two stations, identified as East Sudbury Station and South Sudbury Station; however, based on visual observations and a review of available documents, there is no evidence of contamination associated with these stations.

Note that the re-use of soil during Project construction will be limited by results of any characterization (i.e., testing) performed but also by the segment classification described above. Soil in the MBTA ROW portion of the Project may only be re-used within a similar segment classification (i.e., Industrial Commercial soils may only be re-used in an Industrial/Commercial segment and efforts should be made to re-use soil as close to the point of generation as possible. Although the MassDEP RTG does not specify a limitation for the reuse of soil within similarly classified segments (i.e. Industrial only within Industrial), Eversource and DCR have adopted this conservative soil management approach. Therefore, soils generated from construction activities will be managed separately depending on their classification, both within the ROW as well as at off-site laydown areas.

Right of Way Rail Trail Classifications			
Project Segments		Project Stationing (STA)*	
		Begin	End
Segment 1	Rural/Residential	100 + 00	130 + 00
	Industrial/Commercial	130 + 00	132 + 76
	Rural/Residential	132 + 76	150 + 00
Segment 2	Industrial/Commercial	150 + 00	307 + 70
Segment 3	Rural/Residential	307 + 70	360 + 35
	Industrial/Commercial	360 + 35	363 + 05
	Rural/Residential	363 + 05	569 + 61
Segment 4	Industrial/Commercial	569 + 61	767 + 21

*Stationing from Sudbury-Hudson Transmission Reliability Project Plans dated October 2020.

The 2015 and 2017 site reconnaissance resulted in the Project being divided into the segments as discussed above which directly influenced the location and frequency of samples to be taken during the re-characterization sampling program. For example, soil and groundwater samples were only taken in the in-road and “Industrial/Commercial” segments of the Project. Further details on the site pre-characterization sampling program are described in the following section.

2.3 Pre-Characterization Sampling Program

Based on the findings above, a soil and groundwater pre-characterization sampling program was completed in 2018 to assess the presence of OHM within the in-road and Industrial/Commercial segments of the MBTA ROW portions of the Project and to identify applicable BMPs for handling excavated soil and groundwater during future construction. The program was conducted concurrent with a geotechnical subsurface exploration and included advancing soil borings, installing monitoring wells, and soil and groundwater sampling and analysis. Areas targeted for investigation included sites of potential concern described in Section 2.1 and identified in the VHB ROW table in Appendix C, as well as the following:

- Segment 1 was classified as residential, rural, and undeveloped and therefore MassDEP RTG BMPs would apply and sampling would only be required at the Gleasondale Station due to evidence of contamination (coal slag) identified during Project reconnaissance.
- Segment 3 was characterized as residential, rural, and undeveloped; however, one disposal site of concern is located within this segment which is also the location of Mirror Lake Junction where historical collisions took place. As such, sampling was conducted at Mirror Lake Junction.
- The in-road portion

The soil boring and monitoring well locations are shown on Figure 2.

2.3.1 Subsurface Conditions

In 2018, geotechnical investigations were completed by Lahlaf Geotechnical Consulting, Inc. (LGCI), to gather subsurface information and provided recommendations regarding foundation design and construction along the Project. To assess subsurface conditions, LGCI oversaw a total of sixty-six (66) borings, with thirty-three (33) borings completed in Hudson and thirty-three (33) borings completed in Sudbury. According to the geotechnical explorations, subsurface conditions consisted of the following:

- Asphalt was encountered only in Hudson at depths ranging between 0.7 to 0.9 ft bgs.
- Surficial organic topsoil and subsoil, generally made up of silty sand with organic fines, roots, leaves, grass, and wood, encountered less than 1.5 feet thick in Hudson and 0.5 in Sudbury; however, the thickness ranged between 0.1 and 4 feet in Hudson and 0.1 and 2 feet in Sudbury,
- Fill, mostly poorly graded sand and some silty sand or well graded sand, encountered at ground surface and/or underneath the asphalt or surficial organic layers at various locations in Hudson and Sudbury. Fill depths extended up to 11 ft bgs; however, one location fill was encountered at the termination depth of 16 ft bgs. Note, fill along the abandoned MBTA railroad contained traces of organic fines, coal ash, coal, slag, roots, and wood,
- Buried Organic Soil and Swamp Deposits, generally made up of fibrous peat, organic fines, roots, and wood, encountered beneath the fill and extended to depths up to 10 to 11 ft bgs in Hudson and Sudbury. Note, in Hudson there were a few instances of buried organic soil depths extended up to 20 to 25 ft bgs and swamp deposits were only located in Sudbury,

- Sand, mostly well graded sand and silty sand with some poorly graded sand, encountered beneath the asphalt, surficial organic soil, fill, or buried organic soil and extended to boring termination depths at all locations with few exceptions in Hudson and Sudbury
- Bedrock, hard, slightly weathered, slightly fractured, fine-grained, gray with black mottles Granite, encountered in Sudbury at depths ranging between 6 to 18 ft bgs. Bedrock was not encountered in any of the borings completed in Hudson, however boulders were encountered at depths of 6 ft bgs

In addition, to characterizing soil conditions as part of their investigation, LCGI also evaluated groundwater levels during drilling. According to LCGI observations, groundwater was encountered at every soil boring location with few exceptions. Where encountered, groundwater was observed to be between 4 and 15 ft bgs along the MBTA portion of the Project and 5 to 10 ft bgs along the in-road portion of the Project. Using these depths and the corresponding soil information from the soil borings, LCGI estimated groundwater infiltration flow rates between 1,000 to 4,000 gallons per day for the proposed vault excavation and 10 to 40 gallons per day per foot of transmission line trench.

Further details regarding soil conditions along the Project are provided with the LCGI investigation report provided in Appendix D.

2.3.2 Soil Sampling & Analysis

Soil samples to assess the presence of OHM within the Project area, herein referred to as environmental borings/samples, were collected from select soil borings completed in Hudson and Sudbury to support Project design. These environmental borings were advanced by hollow stem auger or tripod methods, and four discrete samples were collected from each location using two-foot split spoons. Samples were then logged for their physical characteristics (i.e., grain size, moisture content, etc.) and evaluated for visual and olfactory contamination. Samples were also screened for volatile organic compounds (VOCs) using a photoionization detector (PID). The PID screening resulted in <3 parts per million volume (ppmV) at most sample locations except for seven (7) locations in Hudson that resulted in a range of 19 – 80 ppmV. The environmental soil boring logs and corresponding PID results are provided in Appendix E.

In addition to assessing potential impacts through field screening, samples were collected from each environmental boring (i.e., a boring used to evaluate for the presence of contaminants vs. geotechnical properties) and submitted for laboratory analysis to evaluate potential contamination and identify preliminary disposal categories for excavated soil. In general, samples to pre-characterize excavated soils were collected at a frequency of 1 sample per 500 cubic yards of expected soil to be handled. Sample depths were selected to coincide with proposed depths of construction, generally 12 ft. bgs for proposed manholes and 7 ft bgs along the proposed duct bank. A summary of sample depths by location is provided in Appendix C.

Samples for disposal characterization included one discrete sample based on field screening results from each boring for laboratory analysis of VOCs by EPA Method 8260. A vertical composite from the anticipated depth of construction was also collected for analysis of the remaining disposal characterization parameters. The disposal characterization laboratory analysis was conducted by Con-Test Analytical Laboratories according to MassDEP's Policy# COMM-97-001. Laboratory analyses included the following:

- Total Petroleum Hydrocarbons (TPH), Method SW-846 8100 Modified
- VOCs, EPA Method SW-846 8260C
- Semi-volatile organic compounds (sVOCs), EPA Method SW-846 8270D
- RCRA-8 Metals by Method SW-846 6010D and 7471B
- Polychlorinated biphenyls (PCBs), Method SW-846 8082A
- Herbicides, Method SW-846 8151A
- Organochlorine Pesticides, Method SW-846 8081B
- Reactive Sulfide & Reactive Cyanide, Method SW-846 9014/ 9030A
- Ignitability, SW-846 1030
- Conductivity, SM21-22 2510B Modified
- Corrosivity (pH), Method SW-846 9045C

Laboratory data reports are provided in Appendix F. Assessment and remediation of hazardous waste sites in the state of Massachusetts are governed under the Massachusetts Contingency Plan (MCP, 310 CMR 40.0000) enacted under M.G.L. C. 21E. Therefore, to determine potential regulatory obligations resulting from pre-characterization sampling, results of soil analysis compared to the MCP Reportable Concentrations for Soil Category 1 (RCS-1), which is applicable due to the presence of residences within 500 feet of the Project.

2.3.2.1 Hudson In-Road Results

Between June 2018 and August 2018, twenty (20) soil samples from select soil borings were collected for laboratory analysis. The sample locations are shown in Figure 2, Sheet 1. The laboratory results are summarized in Table 1.

Soil samples from the in-road portion of the Project contained various metals, pesticide, semi-volatile organic compounds (SVOCs) and petroleum hydrocarbon concentrations. Where detected, the concentrations were below their respective MCP RCS-1 standards, except for the concentration of hexachlorobenzene at MP-5 and benzo(a)pyrene at MP-2, MP-5 and MP-21.

2.3.2.2 Hudson Rail ROW Results

Between May 2018 and June 2018, thirty-two (32) soil samples from select soil borings were collected for laboratory analysis. The sample locations are shown in Figure 2, Sheets 2 through 4. Sampling results are summarized in Table 2. As shown, soil samples from the MBTA ROW portion of the Project in Hudson contained various metals and TPH concentrations. Where detected, the concentrations were all below their MCP RCS-1 standards.

2.3.2.3 Sudbury MBTA ROW Results

Between October and November 2018, twenty-nine (29) soil samples from select soil borings and one test pit sample (MP40) were collected for laboratory analysis. The sample locations are shown in Figure 2, Sheets 4 through 8. The laboratory results are summarized in Table 3.

Soil sampling results from the Sudbury ROW identified various metals, petroleum hydrocarbons, and SVOCs concentrations. Where detected concentrations were below their respective MCP RCS-1 standards, except for the following:

- Arsenic concentrations at MP34 (21 mg/kg) and SB36 (21 mg/kg) exceeded the MCP RCS-1 standard of 20 mg/kg.
- Two polycyclic aromatic hydrocarbons (PAHs) concentrations, benzo(a)pyrene at MP-33 and phenanthrene at MP34, were equal to their respective MCP RCS-1 standards.
- The TPH concentration at SB42 equaled the MCP RCS-1 standard of 1,000 mg/kg.

The detection of these contaminants at concentrations equal or exceeding their respective MCP RCS-1 standards were subsequently considered to be exempt from notification according to the MCP. The exception from notification was based on the following:

- Arsenic is a commonly detected contaminant of concern within railroad ROWs, having been used historically in various lead-arsenate pesticides as well as frequently detected in coal and coal ash. As such, the detection of arsenic is considered exempt from notification according to the MCP 310, CMR 40.0317(8), which states OHM releases result from the application of pesticides in a manner consistent with the labelling, and 310 CMR 40.0317(9), covering OHM related to coal and coal ash.
- PAHs are commonly detected contaminants in ROW and other areas of historic railroad operations. Although detected at concentrations equal to their respective MCP RCS-1 standards, they were considered exempt according to 310 CMR 0317 because the source of the PAHs was attributed to coal and coal ash. Additionally, these concentrations are consistent with background levels for soil containing coal or coal ash as listed in MassDEP's 2002 technical update Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil.
- TPH is a screening level analysis that is typically used where there is no known release of specific petroleum hydrocarbons. Based on the location of SB42 at the intersection of two public roadways associated Station Road and Boston Post Road, the observed concentrations of TPH in the soil sample can likely be attributed to the normal operations of motor vehicles. Vehicle emissions typically contain low levels of petroleum constituents as well as PAHs. Due to the low levels of TPH at the MCP RC and the low detections of other PAHs such as benzo(a)pyrene, benzo(g,h,i)perylene, benzo(k)fluoranthene, and pyrene, the concentration of TPH in the soil sample associated SB42 is likely attributable to emissions from the exhaust of an engine and is considered exempt from reporting under 310 CMR 40.0317(8)(b). In addition, petroleum residues that are incidental to the normal operation of motor vehicles meet the definition of Anthropogenic Background conditions in accordance with 310 CMR 40.0006.

2.3.3 Groundwater Sampling & Analysis

To characterize groundwater within the Project area, select soil borings were completed as groundwater monitoring wells. As mentioned previously, well locations were installed to sample groundwater in areas that were considered to have the potential to impact the Project based on the environmental database review and site reconnaissance conducted. The wells were constructed using 1- or 2-inch polyvinyl chloride (PVC) riser and a minimum 10-feet of slotted screen set. Groundwater monitoring well locations are shown in Figure 2. Monitoring well construction logs are provided in Appendix E.

Following installation, each newly installed well was developed by purging several well volumes (20 to 30 gallons) using a submersible pump. After allowing the wells to equilibrate, samples were collected using the Environmental Protection Agency (EPA) low flow sampling technique, using a peristaltic pump

and lab grade silicon tubing attached to disposable polyethylene tubing set to the midpoint of the saturated screen, to minimize turbidity. These samples were field preserved and submitted to ConTest for analysis of:

- VOCs, by EPA Method 8260
- Polychlorinated Biphenyls (PCBs), by EPA Method 8082
- RCRA-8 Metals by SW-846 Method 6020/7476, and
- TPH by EPA Method 8100M.

Groundwater sampling results are summarized in Tables 4 and 5. Laboratory data reports are provided in Appendix F.

2.3.3.1 Hudson In-Road & MBTA ROW

Three environmental soil boring locations (SB-5, SB-21 and SB-24) in Hudson were completed as groundwater monitoring wells as shown in Figure 2 – Sheets 2 and 4. On August 3, 2018, groundwater sampling from wells were collected, at which time groundwater was present at depths from 7.65 feet at SB/MW-24 to 15.32 feet in SB/MW-5. As shown in Table 4, no groundwater impacts were identified in any of the three samples. Groundwater analytical results were below the most stringent Reportable Concentrations, category GW-1 (RCGW-1) standards.

2.3.3.2 Sudbury ROW

Three soil boring locations (SB-33, SB-35, and SB-42) in Sudbury were completed as monitoring wells as shown in Figure 2 – Sheets 6 and 7. Groundwater sampling of these wells was completed by VHB on December 5, 2018. Depth to groundwater during the sampling ranged from 1.25 feet at SB/MW-35 to 3.31 at SB/MW-33. As shown in Table 5, the groundwater sampling identified no impacts within this portion of the Project area. Groundwater analytical results were below the most stringent RCGW-1 standards.

In conclusion, the 2018 soil and groundwater pre-characterization sampling program and geotechnical subsurface exploration, as discussed above, assessed the presence of OHM within the in-road and Industrial/Commercial segments of the MBTA ROW portions of the Project. The results from these activities were used to identify applicable BMPs for managing excavated soil and groundwater. Further details on the management of soil and groundwater encountered along the Project are described in the following sections.

3.0 SOIL MANAGEMENT

Excavated soil will be managed according to the requirements of Eversource's *Massachusetts Excess Soil and Groundwater Management Policy* (January 2020), the plans and specifications for the Project, DEP's RTG, and applicable local, state and federal regulations, policies and approvals, including the special conditions identified in Orders of Conditions issued by the Towns of Hudson, Sudbury and Stow. In general, geotechnically suitable excavated soil shall be reused to greatest extent feasible within the Project's limits of work to reduce surplus soil requiring off-site transportation and disposal. A summary of the estimated surplus and potential soil available for reuse is outlined in the table below.

Segment	Classification	Town	Excavation (cy)	Soil Reuse (cy)	Excess Soil (cy)
1	Residential/Rural	Hudson	7,980	410	7,570
	Industrial	Hudson	1,350	--	1,350
	Residential/Rural	Hudson	2,330	190	2,140
2	Industrial	Hudson	8,060	1,550	6,510
3	Residential/Rural	Hudson	4,380	2,580	1,800
	Industrial	S/H	260	260	--
4	Residential/Rural	Sudbury	15,010	8,170	6,840
	Industrial	Sudbury	10,040	6,640	3,400
	In-Road	Industrial	Sudbury	8,470	--
SS	Industrial	Sudbury	330	--	330
TOTAL			58,210	19,800	38,410

"In-Road" = In-road portion of the Project, from HLPD to MBTA ROW

"SS" = Sudbury Substation

"—" = Indicates no or minimal amounts anticipated | "cy" = cubic yards

Refer to Section 2.1.6 for MBTA ROW RTG Segment delineation and Project stationing.

The requirements for on- and off-site soil management re outlined in this Section.

3.1 On-Site Soil Reuse

The on-site reuse of excavated soil will be performed according to where the soil is excavated within the overall Project area. For work in the in-road areas, soil will be reused in the general locations it was excavated. Reuse within the MBTA ROW portion will be performed according to MassDEP's RTG and the segment classification discussed in Section 2.2.1. Additionally, Eversource has adopted the conservative approach that soil reuse from Rural/Residential and Industrial/Commercial segments will be kept separate since soil from Rural/Residential segments has not been characterized and intermixing of soil between different segments classifications is not allowed pursuant to Town approvals. Town approval also prohibit the reuse of excavated soil from the ROW across municipal boundaries to the greatest extent practicable.

As noted above, it is estimated that there will be up to approximately 19,800 cubic yards of excavated soil available for on-site reuse during the Project. Based on the soil pre-characterization sampling results, this SGMP has established appropriate BMPs to minimize or eliminate exposure to contaminated soil by construction workers, site visitors, and the adjacent community as well as to mitigate the track out/migration of contaminated materials, where present, outside the Project's limits of work. The RTG BMPs will include:

- Preparation of site-specific health and safety plan covering the potential hazardous associated with working with contaminated soil likely to be encountered during the Project.
- Implementing dust control measures, such as wet misting, during excavation and grading operations to prevent fugitive dust emissions.
- Covering loads of soil during transport within the Project Area and during transport between off-site laydown areas.
- Securing active work areas and temporary soil stockpile areas to prevent exposure to potentially contaminated soils.
- Providing appropriate erosion and sedimentation controls and stabilization of exposed areas to prevent/control stormwater runoff.
- Limit temporary stockpiles within active work areas and provide temporary soil stockpile locations that are adequately protected/safe-guarded. Stockpiles to be placed on and covered with polyethylene sheeting and provided with erosion and sedimentation controls.

Additionally, an independent environmental monitor will conduct inspections of Project work areas and off-site laydown and stockpile areas to assess BMP effectiveness and identify additional controls, where needed.

3.2 Off-Site Soil Management

3.2.1 Eversource Soil Types

It is estimated that the Project may result in generating up to approximately 38,400 cubic yards of surplus excavated soil. Surplus soil unable to be reused within the Project area will be transported off-site for appropriate reuse, recycling, treatment or disposal. The transport and off-site management of surplus soil will be performed according to applicable local, state and federal regulations and polices and Eversource's *Massachusetts Excess Soil Management Policy* and MassDEP's COMM-97 policy and Similar Soils Provisions Guidance (WSC-13-500). To evaluate management options, soil within the Project Area will be classified according to the following Eversource soil management categories:

Type A Soil: Reuse at Sand and Gravel facility: Soils which do not contain oil or hazardous material (OHM) or contain OHM below levels consistent with "natural" soil per MassDEP's Similar Soils Provision Guidance (WSC-13-500) are not considered Remediation Waste; this includes soil that exhibits concentrations of TPH less than or equal to 25 parts per million (ppm). These "natural" soils may be reused at specific beneficial reuse locations on a case-by-case basis under the discretion of Eversource and may be reused at an active sand and gravel processing facility that holds a Site Assignment Authorization with approval from the LSP-of-Record. Facilities that are reclaiming former sand and gravel pits must have a MassDEP approved ACO in place in accordance with MassDEP Interim Policy COMM-15-01: Re-Use of Soil for Large Reclamation Projects Policy.

Type B-1 Soil: <RCS-1 Beneficial Reuse: Soil containing OHM concentrations below MCP RCS-1 criteria can be used as fill material at off-site industrial/commercial locations provided that pre-existing OHM concentrations at the fill location are equal to or higher than those that exist in the construction generated soil and are not located within the Utility Related Abatement Measure (URAM). Facilities must have a MassDEP approved Administrative Consent Order (ACO) in place in accordance with MassDEP Interim Policy COMM-15-01.

Type B-2 Soil: <RCS-2 Beneficial Reuse: Soil containing OHM concentrations below MCP RCS-2 criteria can be used as fill material at off-site industrial/commercial locations provided that pre-existing OHM concentrations at the fill location are equal to or higher than those that exist in the construction generated soil and are not located within the URAM. Facilities must have a MassDEP approved ACO in place in accordance with MassDEP Interim Policy COMM-15-01.

Type C-1 Soil: Massachusetts Unlined Landfills: Soil that contains OHM concentrations above MCP RCS-1 levels but below the criteria for Massachusetts Unlined landfills per MassDEP Policy COMM-97-001.

Type C-2 Soil: Massachusetts Lined Landfills: Soil that contains OHM concentrations above MCP RCS-1 levels and Massachusetts Unlined landfills but below the criteria for Massachusetts Lined landfills per MassDEP Policy COMM-97-001.

Type D-1 Soil: Asphalt Batch Facility: Soil that contains OHM concentrations above MCP RCS-1 levels and above the criteria for Massachusetts unlined and lined landfills per MassDEP Policy COMM-97-001 but meets acceptance criteria for a permitted asphalt batch facility can be recycled at such facilities.

Type D-2 Soil: Thermal Desorption Facility: Soil that contains OHM concentrations above MCP RCS-1 levels and above the criteria for Massachusetts unlined and lined landfills per MassDEP Policy COMM-97-001 but meets acceptance criteria for a permitted thermal desorption facility can be recycled at such facilities.

Type D-3 Soil: Non-Hazardous Waste Out of State RCRA Subtitle D Landfill Facility Daily Cover: Soil that contains OHM concentrations above MCP RCS-1 levels and above the criteria for Massachusetts unlined and lined landfills per MassDEP Policy COMM-97-001 but meets acceptance criteria for a permitted non-hazardous waste out of state Subtitle D landfill facility for use as daily cover.

Type D-4 Soil: Non-Hazardous Waste Out of State RCRA Subtitle D Landfill Facility Disposal: Soil that contains OHM concentrations above MCP RCS-1 levels and above the criteria for Massachusetts unlined and lined landfills per MassDEP Policy COMM-97-001 but meets acceptance criteria for a permitted non-hazardous waste out of state Subtitle D landfill facility can be disposed at such facilities.

Type E-1 Soil: U.S. EPA Hazardous Waste RCRA Subtitle B Treatment Facility or RCRA Subtitle C Landfill Facility: Soil containing OHM concentrations that exceed reuse levels for Massachusetts landfills, asphalt batch and/or thermal desorption facilities and exceed federal TCLP limits or otherwise meets the definition of hazardous waste. Meets acceptance criteria for a permitted hazardous waste out of state RCRA Subtitle B treatment facility of RCRA Subtitle C landfill facility.

Type E-2 Soil: U.S. EPA Hazardous Waste PCB TSCA Landfill: Soils that either contain PCB concentrations greater than 50 PPM or are TSCA regulated and being managed under a Performance Based Cleanup can be disposed at approved TSCA facilities in accordance with 40 CFR 761.

Type E-3 Soil: Soil Stabilization to treat TCLP metals: Soil stabilization treatment of soil containing OHM concentrations that exceed federal TCLP limits for metals, to render soils non-hazardous prior to generation.

As noted above, it is estimated that the Project will require managing up to 38,410 cubic yards (approximately 65,200 tons) of surplus soil. The pre-characterization sampling program results described in Section 2.0 indicate management of these materials will generally be as either Type A, Type B-1 or Type C-1. The soil meeting these classifications along the Project area are color-coded as shown in Figure 2 and summarized below.

Pre-Characterization Soil Management Summary					
Town	Figure 2 Sheet No.	Soil Type Grouping Locations	Project Stationing		Soil Category
			Begin	End	
Hudson	1	Project Start to MP-1	00+00	--	B-1
		MP-1 to MP-3	--	--	C-1
		MP-3 to SB-1	--	--	B-1
		SB-1 to MP-6	--	--	C-1
		MP-6 to SB-2	--	--	B-1
		SB-2 to MP-10	--	--	A
		MP-10 to MP-14	--	--	B-1
	2	MP-14 to MP-15	100+00	129+00	B-1
		MP-15 to SB/MW-5	129+00	131+50	A
		SB/MW-5 to SB-14	131+50	152+05	B-1
		SB-14 to SB-15	152+05	156+52	A
		SB-15 to SB-44	156+52	161+87	B-1
	2 - 3	SB-44 to SB-45	161+87	180+40	A
	3	SB-45 to MP-22	180+40	186+50	C-1
		MP-22 to SB-16	186+50	211+43	A
		SB-16 to SB-43	211+43	303+85	B-1
2 - 3	SB-43 to SB/MW-24	303+85	360+93	A	
Sudbury	3 - 6	SB/MW-24 to MP-27	360+93	572+00	B-1
	6	MP-27 SB/MW-33	572+00	576+76	A
	6 - 7	SB/MW-33 to MP-28	576+76	579+96	B-1
	6 - 7	MP-28 to MP-29	576+96	587+00	C-1
	7	MP-29 to SB-34	587+00	591+83	A
		SB-34 to MP-32	591+83	603/700+00	B-1
		MP-32 to SB-40	603/700+00	714+90	C-1
	7 - 8	SB-40 to Project End	714+90	767+20.85	B-1

According to Eversource's guidelines for excess soil management and the Project's excess soil management specifications, the following table outlines the anticipated types of facilities to be utilized and the required sampling frequencies to facilitate acceptance for surplus soil generated from the Project.

Soil Type	Expected Surplus Tonnage (% of total)	Destination Facility	Typical Sampling Frequency (per ton)
Type A	15	Reuse at Sand & Gravel Facility	800
Type B-1	76	<RCS-1 or 2 ACO Soil Reclamation Site	800
Type C-1	9	Unlined In-State Landfill	800

The Project contractor will be responsible for selecting appropriate destination facilities based on the pre-characterization soil sampling results and any supplemental testing performed by contractor during the Project. According to the Project's specifications, it is the contractor's responsibility to perform additional sampling, where required, to obtain approval from off-site facilities. The Contractor shall transport surplus soil off-site under a Massachusetts Material Shipping Record (MSR), Bill of Lading (BOL) or uniform hazardous waste manifest. Draft shipping documentation shall be prepared by the Contractor and submitted to Eversource and LSP for review a minimum 14 days prior to soil shipment. Eversource will sign all documentation as generator. Where required, Weston & Sampson will sign/stamp MSRs and BOLs as the LSP-of-Record/Qualified Environmental Professional. Final shipping documentation, once approved by the facility will be provided to the Sudbury Conservation Commission.

3.3 Soil Handling Procedures

Soil management will be overseen by Eversource and Weston & Sampson as the Licensed Site Professional (LSP) of Record for the Project. As noted above, inspections by a Project EM will be made during the Project to monitor the Contractor's soil handling operations and BMPs. Weston & Sampson will also conduct regular (weekly) inspections to verify that soil handling conforms with the Project's plans and specifications and this SGMP. General soil excavation and handling requirements are described below. Additional handling procedures are also outlined in Eversource's Excess Soil Management Specification 22153 included with the contract documents.

3.3.1 Excavation

Excavation of soil shall be handled in a manner that minimizes the spread and loss of contaminated materials, prevents cross-contamination of soil types/classifications, and segregates construction debris from excavated contaminated materials. Excavation activities should implement measures to divert and/or prevent surface water from directly entering open excavation areas. Following excavation, excess soil must be transported directly to the approved temporary controlled stockpile area for stockpiling prior to on-site reuse or transported directly off-site for reuse/recycling/disposal. No soils shall be removed from the Project area without prior approval from Eversource.

Excavated soils shall be handled according to their pre-characterization Eversource soil category and their RTG segment designation. Soils may be reclassified by the LSP and/or Eversource during excavation based on field screening, visual and olfactory observations, and the results of additional laboratory testing performed by the Contractor or LSP. Additionally, the LSP may evaluate excavation areas for the presence of debris to assess if such material can be designated as uncontaminated general demolition material. Excavation areas will also be inspected if unforeseen contaminated materials are encountered. The management of debris and unknown contaminated materials will be according to the Project specifications and Sections 5.0 and 6.0 of this SGMP.

3.3.2 *Dust Controls*

Soil excavation shall be performed in a manner that limits generating fugitive dust. Dust control measures and airborne particulate matter monitoring will be implemented to prevent unacceptable levels of dust resulting from handling operations associated with contaminated materials. Dust controls utilized by the contractor shall include wet misting during excavation activities or soil stockpiling activities, covering inactive soil stockpiles with polyethylene tarps, and covering each load of materials transported within and outside the Project area. Additionally, the Contractor is responsible for sweeping/cleanup of any materials tracked onto local streets. Lastly, any water used for dust suppression cannot be pumped or obtained from resource areas. The dust suppression methods shall be subject to approval from LSP. If alternate dust suppression methods are proposed by the contractor, the Sudbury Conservation Commission will be notified prior to implementation.

3.3.3 *Stockpiling & Temporary Storage*

Following excavation, excess soil must be transported directly to the approved temporary controlled stockpile area for stockpiling prior to on-site reuse or transported directly off-site for reuse/recycling/disposal. The Contractor may be permitted to temporarily stockpile excavated materials upon approval by Eversource and the LSP. Soil stockpiles within the Project area will be limited in size and duration (no longer than one week) with appropriate runoff and erosion controls (silt fence and/or straw bales) installed around its perimeter. Sediment controls must be inspected regularly and repaired or replaced, as needed. Stockpiles of contaminated soils must be placed on and covered with a minimum of 6 mil polyethylene sheeting and at the end of each day secure the covering to prevent the stockpile from becoming uncovered due to winds. Excavated contaminated materials shall not be placed directly on the ground.

3.3.4 *Transportation & Disposal*

The Contractor is responsible for facilitating acceptance and transporting surplus excavated materials off-site for appropriate reuse, recycling or disposal. As noted above, no soil shall be removed from the Project area without prior approval from Eversource. The transport of soil classified as Type B-1 and Type C-1 will also require a signed/stamped Massachusetts BOL, MSR, and/or opinion letter from the LSP. During transportation, the Contractor is responsible for employing all measures necessary to prevent debris and/or soil from being spilled from trucks or tracked out onto local streets. Transportation shall also be performed according to any municipal traffic management plans required.

Following receipt of the surplus soil by off-site receiving facilities, the Contractor shall provide copies of fully executed manifests, MSRs and/or BOLs to Eversource and the LSP along with copies of certified weight slips for each load received. Information shall be provided to Eversource and LSP within 20 days of the last shipment.

4.0 GROUNDWATER MANAGEMENT

Observations during the Project's pre-characterization sampling program indicate depth to groundwater within the Project area generally ranges between 1 to 4 ft bgs in Sudbury and 7.5 to 15 ft bgs in Hudson. Based on these depths and the anticipated excavation depths for the Project, groundwater dewatering is likely to be required during construction. Given that previous groundwater sampling did not identify any locations where contaminant concentrations exceeded applicable standards, it is anticipated that only uncontaminated groundwater management will be necessary.

4.1 Groundwater Management Procedures

As described in Section 2.2.1, in 2018 LGCI performed geotechnical subsurface explorations across the Project in 2018. Based on soil observations and the perceived depth to groundwater encountered during their investigation, LGCI estimated groundwater infiltrations between 1,000 to 4,000 gallons per day for proposed vault excavations and 10 to 40 gallons per day per foot of transmission line trench could be expected.

The LCGI investigations indicate groundwater dewatering will be required to complete construction. Where dewatering is necessary, it shall be managed in accordance with the Project specifications, Section 22151 – Construction Dewatering, and all applicable local, state and federal regulations, polices and approvals, including the special conditions stipulated by OOCs issued by the Towns of Hudson, Sudbury and Stow. The Contractor shall note handling groundwater dewatering may vary by locations based on location of work and nearby resource areas. In general, groundwater shall be discharged in the vicinity of where it was generated and not within any wetland or 100-feet of a RFA. Additional dewatering handling requirements are discussed in Section 5.0.

4.1.1 General Requirements

Given the extent of dewatering that is likely to be necessary during the Project, efficient handling and discharge of dewatering effluent will be critical to completing construction and comply with the OCC issued from the local conservation commissions having jurisdiction over the work. Options for handling groundwater include the following based on work area conditions, infiltrations rates, and locations of any nearby natural resource areas:

- Infiltration by overland flow of the groundwater discharge to a vegetated upland area within the limit of work.
- Filtration of dewatering effluent using a filter bag surrounded by straw wattles or similar method before entering a dedicate catch basin or drain.
- On-site recharge through an adjacent section of trench within the limit of work.

Irrespective of the Contractor's chosen method, the Contractor is required to implement methods of controlling groundwater, seepage, precipitation, surface water runoff, and construction-generated water both inside and outside the excavation. The Contractor is responsible to furnish, install, operate, maintain, and remove a temporary construction dewatering systems/equipment to handle the expected flows. According to the Project specifications, the Contractor's dewatering system shall be capable of handling varying flow rates up to 50,000 gallons per day for every 100 linear feet of trench and manhole based on conditions encountered during construction. It is also the Contractor's responsibility to sufficiently dewater excavated soil to prevent transporting soil containing free liquids from the Project.

4.1.2 System Operation

The Contractor shall operate dewatering systems as necessary to lower and maintain groundwater water table and hydrostatic pressures below subgrade of trench and manholes to allow construction to proceed in a reasonably dry condition and maintain safe working conditions. Groundwater seepage, precipitation, surface water runoff and other construction-generated water shall be controlled until excavation and backfilling activities are complete. It is also the Contractor's responsibility to provide adequate collection, pumping, storage, sedimentation controls and, if necessary, treatment to comply with all local, state and federal regulations affecting the work. Eversource, the Sudbury Conservation Commission, and LSP shall be notified a minimum 7 days prior to dewatering discharge. Additional requirements outlined by the OOCs for the Project are summarized in Section 5.2.

4.1.3 On-site Recharge Requirements

The Contractor may discharge/recharge construction-related water on-site provide that the on-site discharge/recharge does not result in on-site surface runoff or damage to on-site construction and on-site discharge does not spread contamination or increase existing levels of contamination in other portions of the site or adjacent sites. On-site discharge must be performed according to the requirements of the MCP, Town/Conservation Commission requirements, and all other local, state and federal regulations. The Contractor is responsible for providing equipment and incidentals necessary for adequate flow and sedimentation control for on-site discharge of construction-related water. Additional groundwater management requirements are outlined in the Project Specifications.

5.0 REGULATORY REQUIREMENTS

The excavation and handling of soil and groundwater in some areas of the Project will be subject regulation under the MCP for handling contaminated materials as well as the special conditions stipulated by the Orders of Conditions issued by Town of Hudson, Sudbury and Stow for work in natural resource areas along the Project route. These requirements are discussed below.

5.1 Utility-Related Abatement Measure

The pre-characterization sampling program identified two locations within the Hudson in-road portion of the Project where contaminant concentrations exceeded their applicable MCP RCS-1 standards. Based on the exceedances, soil and groundwater management activities during work in these areas will be conducted under a Utility-Related Abatement Measure (URAM) prepared according to the MCP, 310 CMR 40.0460. The URAM will be filed by Eversource and Weston & Sampson prior to construction in these areas. The limits of the URAM areas based on the pre-characterization data performed to date are shown on Figure 2, Sheets 1 and 3.

5.2 Order of Conditions

The Orders of Conditions issued by the Towns of Hudson, Sudbury and Stow will affect portions of the earthwork conducted during the Project. In addition to complying with the requirements of this SGMP, work must be performed according to the OOC from each town. The OOC include various special conditions with the potential to impact environmental protection, earthwork and dewatering activities are outlined below. Where applicable, wetland jurisdictional areas are shown in Figure 3.

Order of Conditions – Special Conditions	
HUDSON	<p><u>EARTHWORK CONDITIONS</u></p> <ul style="list-style-type: none"> All Time-Of-Year (TOY) construction restrictions and sweeps required by the Natural Heritage and Endangered Species Program shall be followed. TOY restrictions include no work within 450 feet of vernal pools between March 1 and June 1. The Project EM shall be always on site that work is being performed in jurisdictional wetland areas. If on-site excavation or other work reveals any soil contamination in reportable concentrations or quantities, the Conservation Commission shall be notified and shall be copied on all related correspondence. If it is necessary to clean construction equipment while on site, it must be cleaned outside of the 100-foot Buffer Zone, Riverfront Area, or any other Resource Areas. <p><u>DEWATERING CONDITIONS</u></p> <ul style="list-style-type: none"> If dewatering is necessary, water will not be discharge directly into any waterbodies, BVW, or inner 100-feet of RFA. Conservations Commission shall be notified in advance if dewatering required within jurisdictional areas and shall inspect work site before dewatering commences if such inspection can occur within 24 hours of notification.

	<ul style="list-style-type: none"> If any remedial activities or changes to the work plans are required due to the potential presence of PFAS in the Zone II wellhead area or other jurisdictional areas; the Conservation Commission shall be notified.
<p style="text-align: center;">SUDBURY</p>	<p><u>EARTHWORK CONDITIONS</u></p> <ul style="list-style-type: none"> All stumping, grubbing, and grading shall be conducted after erosion controls have been installed and shall not adversely affect woody vegetation, or disturb soils, outside the permitted erosion control barriers. Laydown areas shall be located predominantly outside resource areas subject to the Commission's jurisdiction. If any construction laydown area is proposed outside of the currently proposed work limits and in an area subject to the Commission's jurisdiction, an erosion control plan shall be submitted in advance to the Commission's representative for review and approval. In any part of the Project work limits within 200 feet of a road crossing where the MBTA ROW crosses a Zone II for the Sudbury Water District supply wells, if a clay layer is encountered in the excavation for the transmission line and the excavation will extend below the bottom of the clay layer, the clay shall be stockpiled and reused to backfill and line the excavation before the transmission line duct bank is placed in that location. Stockpiling of materials within the ROW shall be limited in size and duration (one-week maximum) and shall be located as far from sensitive areas as possible. Soil stockpiles shall be covered with tarp or plastic sheet and surrounded by erosion controls. Excess soil not reused within the Project site shall be stockpiled outside the ROW and wetland jurisdiction. Weekly reports prepared by the Project EM throughout construction will identify the locations of active stockpiles and will confirm that the appropriate erosion control measures are being implemented. At least two weeks prior to the start of Phase I, the Applicant shall provide a construction schedule detailing construction activities and sequencing. This shall be amended as necessary throughout construction. Weekly reports shall be submitted to the Commission that details work completed each week and anticipated work for the coming week, including identifying when work is located in areas of potential elevated levels of soil and groundwater contamination. These reports shall include anticipated dewatering activities so that oversight can be provided by the Commission or its Agent, if found necessary, and include the location of active stockpiles with confirmation that appropriate erosion control measures are being implemented. No equipment cleaning or refueling may occur within a wetland or upland resource area, with the exception of the crane. For cranes positioned within wetland jurisdiction for more than one day, the Applicant shall provide secondary containment to contain any leaks that may emanate from equipment. Other than the grading of minor amounts of soil within the immediate vicinity of the Hudson/Sudbury town boundary, no soil excavated from Hudson may be used in Sudbury. The Sudbury Conservation Commission shall be copied if the Hudson Conservation Commission is notified of any remedial activities or changes to the work plans required due to the potential presence of PFAS in jurisdictional areas in Hudson. The Applicant shall ensure that any reuse of on-site soils shall not result in the degradation of soil or groundwater in the area.

	<ul style="list-style-type: none"> Loam borrow brought to the site to stabilize the work area after completing Phase I shall be sourced appropriately. Use of impacted soils (from contamination or invasive seed) shall be prohibited. <p><u>DEWATERING CONDITIONS</u></p> <ul style="list-style-type: none"> If dewatering is required, the Project EM shall be notified of all dewatering activities and be on-site during dewatering in sensitive locations, i.e., whenever excavation is proposed within 50 feet of a wetland, or when extensive dewatering will be needed. All dewatering shall include appropriate physical measures to filter sediment from water pumped from excavations, slow down velocity of discharge to eliminate potential for erosion and promote infiltration back to the local groundwater table. Dewatering activities shall be located as far as possible from wetland resource areas and shall be prohibited from discharging to Bordering Vegetated Wetlands, Isolated Vegetated Wetlands, Land Under Water Bodies and Waterways, or within the inner Riverfront Area. Dewatering may only occur in other upland resource areas provided adequate control measures are implemented and locations are identified by the contractor and review and approved by the Commission and/or its agent prior to implementation.
<p style="text-align: center;">STOW</p>	<p><u>EARTHWORK CONDITIONS</u></p> <ul style="list-style-type: none"> No filling or excavating of land beyond the limits or above the grades on the submitted plans is authorized. All stockpiles shall be within the limit of work. The erosion controls shall serve as a limit of work and no activity, including stockpiling or storage of material, is permitted beyond the sediment controls. If dust controls beyond water spraying is required, the Conservation Commission shall be notified. All trenches shall be backfilled or secured at the completion of each workday. All imported soils shall be clean and reasonably free of invasive species. No soil contaminated with Japanese knotweed and/or knotweed rhizomes may be reused in Stow. The Environmental Monitor shall identify and document any areas contaminated with Japanese knotweed within 500 of the eastern and western Town of Stow line prior to commencing construction. <p><u>DEWATERING CONDITIONS</u></p> <ul style="list-style-type: none"> If dewatering is necessary, the Conservation Commission shall be notified in advance and must approve this work in the field prior to commencing dewatering. No direct discharge to a waterbody is permitted. No overland discharge of water is allowed within 100 feet of vegetated wetlands.

	<ul style="list-style-type: none">• Concrete wash-out water shall not be discarded within the 100' buffer or within 100' of any drainage system that may discharge to wetlands or outside of the limit of work.
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Restricted areas for dewatering are shown in Figure 3. Additional conditions affecting the other portions of the work are included with the OOCs in Appendix A.

6.0 MANAGEMENT OF OTHER EXCAVATED MATERIALS

Based on historic review of the Project Area, site reconnaissance, and the completed subsurface investigations, Project work may require excavating and handling of additional materials, such as the former rail line and railroad ties within the MBTA ROW portion of the Project. Types of materials to may be encountered and corresponding management requirements are outlined below.

6.1 Construction & Demolition Debris

Construction and demolition debris, such as plastic, metal, wood debris and glass, may be encountered during some soil excavation work. If encountered, these materials shall be segregated to maximum extent feasible for separate off-site transportation and recycling at an appropriate facility permitted to receive such materials.

6.2 Railroad Ties and Ballast

Work within the MBTA ROW portion of the Project is anticipated to encounter rail lines and ties associated with the former train service in this area. These materials shall be segregated during soil excavation for separate handling and disposal. Excavated rail ties shall be transported off-site for appropriate recycling or disposal according to MassDEP solid waste regulations, 310 CMR 16.00 and 310 CMR 19.00 and all other applicable local, state and federal regulations.

If ballast is encountered, it should be visually evaluated for the presence of OHM such as staining or sheening. If ballast is visually impacted, this material should be segregated for off-Site disposal consistent with section 22153 of the Project specification. If unimpacted, the contractor should re-use ballast whenever practicable or export with excess soil, as required.

6.3 Asphalt, Brick & Concrete

Asphalt, brick and concrete (ABC) that is encountered during the Project shall be segregated from excavated soil to maximum extent feasible for separate handling/disposal. ABC materials shall be managed/recycled according to MassDEP's solid waste regulations, 310 CMR 16.00 and 310 CMR 19.00. The crushing/downsizing of ABC materials to facilitate their loading, transport and acceptance by off-site recycling facilities is the Contractor's responsibility.

7.0 MANAGEMENT OF UNEXPECTED SOIL OR GROUNDWATER CONDITIONS

The Contractor shall immediately notify Eversource, the Sudbury Conservation Commission, and the LSP if suspected contaminated materials are encountered during the Project. Suspected contaminated material characteristics include: significant petroleum and/or chemical odors, an oily sheen or the presence of non-aqueous phase liquid (NAPL), and/or materials that exhibit significant staining or are comingled with suspect building debris (i.e., floor tile, insulation, etc.) or asbestos containing cement pipe.

Before continuing to handle any suspect contaminated materials, the Contractor will be provided guidance on how to manage, characterize, temporarily store, and recycle/dispose of any such materials. At a minimum, the Contractor will segregate suspect contaminated materials from other materials, as required by Eversource and the LSP. Stockpiles of contaminated materials will be placed and covered by 6-mil polyethylene sheeting, while groundwater/NAPL will be containerized in drums or frac tank. Additionally, best management practices (BMPs) for erosion and sedimentation control of soil stockpiles (e.g., straw wattles, silt socks, etc.) will also be employed to prevent silt-laden runoff. These BMPs and stockpile covers shall be maintained until the materials are removed from the Site.

In the event suspect contaminated materials are encountered, it may be necessary for the Contractor to stop work and assist Eversource/LSP with collecting samples to evaluate the nature of potential soil and groundwater impacts and to characterize materials for appropriate off-site transportation and disposal. Work in suspected contaminated areas shall not resume until receipt of the sampling data unless approved by Eversource and the LSP. Based on the data, the Contractor shall transport suspected contaminated materials off-site for appropriate disposal. No materials shall be transported from the area without approval by Eversource and LSP as well as the Contractor's receipt of a signed/stamped BOL, MSR or hazardous waste manifest, as appropriate.

8.0 ORGANIZATION & RESPONSIBILITIES

Managing soil and groundwater will involve coordination between Eversource, Weston & Sampson as LSP-of-Record, and the Construction Contractor. This Section outlines the roles and responsibilities as well as lines of communication between these parties. Contact information for Eversource and Weston & Sampson are provided below.

Eversource Project Contact:

Mr. Dean Bebis
Environmental Specialist – Soil & Groundwater Management
Eversource Energy
247 Station Drive, SE270
Westwood, Massachusetts 02090
508-654-0492 | Dean.bebis@eversource.com

Weston & Sampson Project Contact:

Mr. Paul McKinlay, PG, LSP
Senior Project Manger
51 Walkers Brook Drive, Suite 100
Reading, Massachusetts 01867
617-5714521 | Mckinlayp@wseinc.com

8.1 Construction Contractor

The selected contractor will be responsible for managing surplus soil and groundwater as outlined in Section 22153 – Excess Soil Management and Section 22151 – Construction Dewatering of the Project's specifications. Work will include:

- Provide an off-site laydown area, as needed, for the temporary storage of excavated soil and groundwater prior to reuse within the Project Area or off-site reuse, recycling, treatment or disposal. Storage area locations and materials are subject to approval by Eversource and LSP and shall coordinate with relevant sections of the Project plans and specifications. Note that the local OOCs included in Appendix A include specific provisions and restrictions for permitted stockpile locations and procedures.
- Submit for approval by Eversource /LSP all required submittals outlined by Section 22153 and Section 22151 (Appendix G), including a list of proposed soil reuse, recycling, and/or disposal facilities for each category of surplus soil identified. For each category, a primary and secondary facility shall be identified.
- Comply with all applicable permits and approvals for the work including OOCs included as Appendix A.
- Submit all required disposal paperwork to coordinate acceptance of surplus soil and groundwater by approved off-site facilities.
- Excavate, stockpile, load, transport and dispose/reuse of surplus soil and groundwater off-site at approved facilities.
- Excavate, segregate, stockpile, load, transport and dispose/reuse of miscellaneous excavated materials at approved facilities.
- Provide weekly soil management reports for review and approval by Eversource and the LSP. A copy of these weekly reports will be provided to the Sudbury Conservation Commission.

8.2 Eversource

Eversource shall be responsible for the following soil and groundwater management activities:

- Review and approve the Contractor's selected primary and secondary off-site reuse, recycling, treatment and disposal facilities.
- Review and approve the Contractor's temporary staging/laydown area location.
- Sign appropriate disposal documentation, including MSRs, BOLs, and waste profile forms, to facilitate acceptance and the transportation off-site of excavated materials, excess soil and groundwater to approved facilities. Licensed Site Professional.

8.3 Licensed Site Professional

The LSP shall be responsible for the following soil and groundwater management activities:

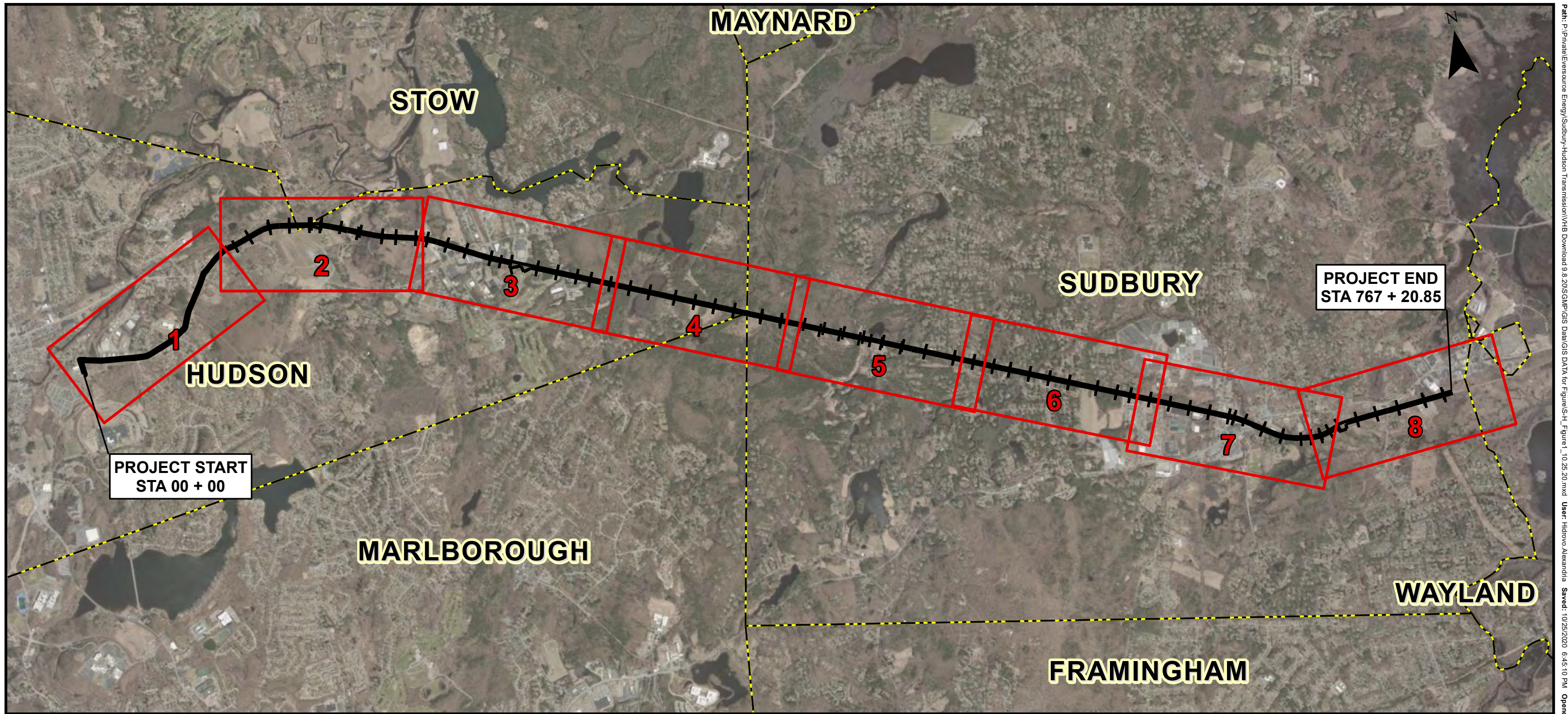
- Review the pre-characterization sampling results to develop appropriate soil classifications according to categories outlined in as well as relevant MassDEP policies (COMM-97-001, COMM-15-01) and approved off-site reuse, recycling, treatment or disposal facility acceptance requirements.
- Preparation and updating (as necessary) this SGMP.
- Responding to and establishing requirements for handling, segregating and stockpiling of unanticipated contamination discovered during the Project.
- Conduct supplemental soil and groundwater sampling and analysis as needed to support acceptance of surplus excavated soil and groundwater by approved off-site facilities.
- Review and approval of the Contractor's proposed transportation companies and off-site reuse, recycling, treatment and disposal facilities for surplus excavated materials, soil and groundwater.
- Review and approval of the Contractor's proposed staging locations.
- Preparing MSRs and BOLs along with all applicable waste profile questionnaires or control forms for the Contractor's use in obtaining acceptance for surplus excavated materials, soil and/or groundwater by approved off-site facilities.
- Preparing Utility-Related Abatement Measure (URAM) notifications along with associated status and completion reports where required to handling contaminated materials during the Project.
- Prepare any required Release Notification Forms (RNFs) to address unforeseen contaminated materials requiring notification to MassDEP under the MCP.

9.0 REFERENCES

The information presented in this report was prepared based on the following reports and information.

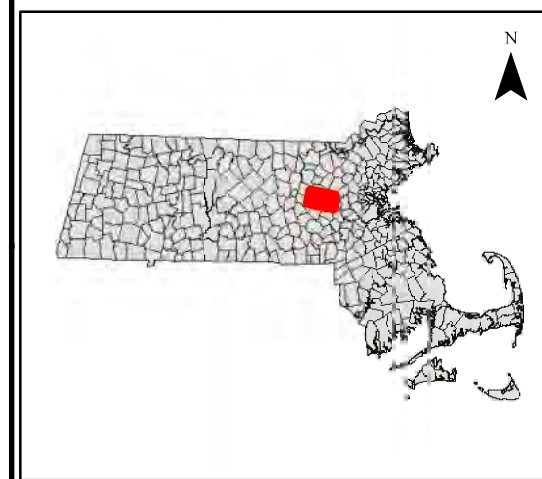
1. *Geotechnical Report, Proposed Transmission Power Line Borings, Hudson, Massachusetts*, prepared by Lahlaf Geotechnical Consulting, Inc. (August 2018).
2. *Geotechnical Report, Proposed Transmission Power Line Borings, Sudbury, Massachusetts*, prepared by Lahlaf Geotechnical Consulting, Inc. (December 2018).
3. *Summary of Hazardous Materials Assessment, Proposed Transmission Line Project, Sudbury to Hudson, Massachusetts*, prepared by Vanasse Hangen Brustlin, Inc. (September 2017)
4. *MBTA ROW Subsurface Assessment Activities, Proposed Transmission Line Project, Hudson, Massachusetts*, prepared by Vanasse Hangen Brustlin, Inc. (August 2018)
5. *Summary of Hazardous Materials Assessment, Proposed Transmission Line Project, Hudson, Massachusetts*, prepared by Vanasse Hangen Brustlin, Inc. (October 2017).
6. *Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Summary of Soil and Groundwater Analytical Results and Subsurface Media Management*, prepared by Vanasse Hangen Brustlin, Inc. (May 2020).
7. *Massachusetts Contingency Plan, 310 CMR 40.0000 et. seq.*
8. *Massachusetts Excess Soil and Groundwater Management Policy*, prepared by Eversource Energy (January 2020 revised).
9. *MassDEP Policy - Best Management Practices for Controlling Exposure to Soil during Development of Rail Trails.*
10. *MassDep Policy (COMM-15-01) – Interim Policy on Re-Use of Soil for Large Reclamation Projects*, (August 2015).
11. *MassDEP Policy (WSC-13-500) – Similar Soils Provision Guidance* (September 2014).
12. *MassDEP Policy (COMM-97-001) – Reused and Disposal of Contaminated Soil at Massachusetts Landfills*, (August 1997).
13. *Database Report: Underground Transmission Line Middlesex County, Sudbury/Hudson* prepared by Environmental Risk Information Services for Weston & Sampson Engineers, Inc. (October 2020).

FIGURES



PROJECT START
STA 00 + 00

PROJECT END
STA 767 + 20.85



- Legend**
- Project Area
 - In-Road
 - + MBTA ROW
 - Town Boundary
 - Figure 2 | Sheet Numbers

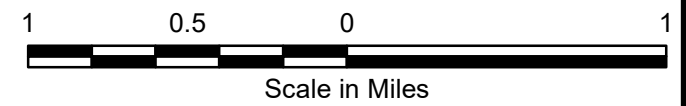


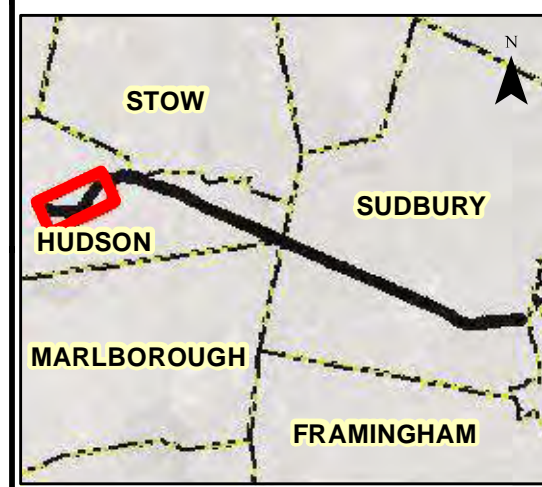
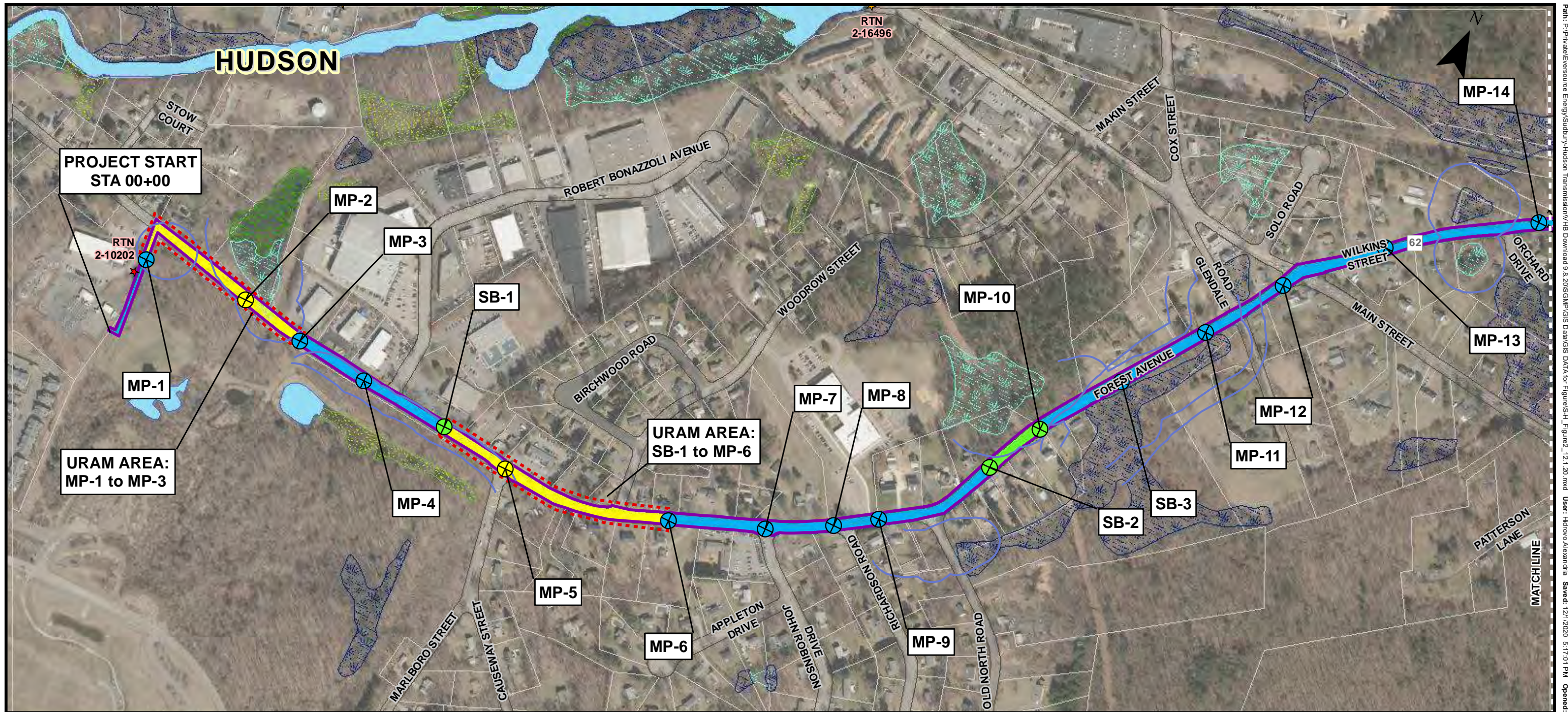
FIGURE 1 | Sheet 1 of 1

SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT

PROJECT MAP

FEBRUARY 2020 SCALE: NOTED





Legend

- Project Area**
- In-Road
 - MBTA ROW
- MBTA Segments**
- Industrial /Commercial
 - Residential /Rural
- Town Information**
- Parcels
 - Roads
 - Boundary

- Wetland Areas**
- Bog
 - Deep Marsh
 - Shallow Marsh /Meadow
 - Open Water
 - Shrub Swamp
 - Wooded Swamp
- STA Callout**
- Centerline
 - 50ft Interval
 - 500ft Interval

- Soil Type**
- Type A Soils
 - Type B-1 Soils
 - Type C-1 Soils
- MCP Disposal Sites**
- Sites of Concern
 - All Other Sites
- URAM Area**
- Former Railroad Stations**
- Buffer Zones**

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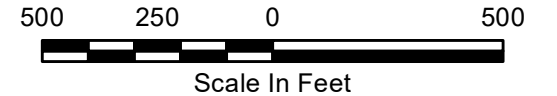
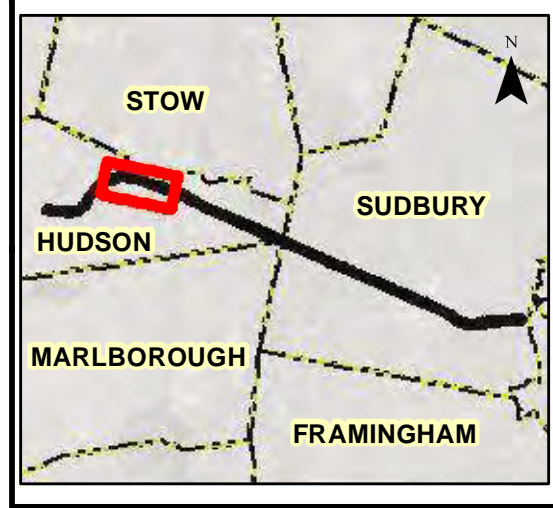
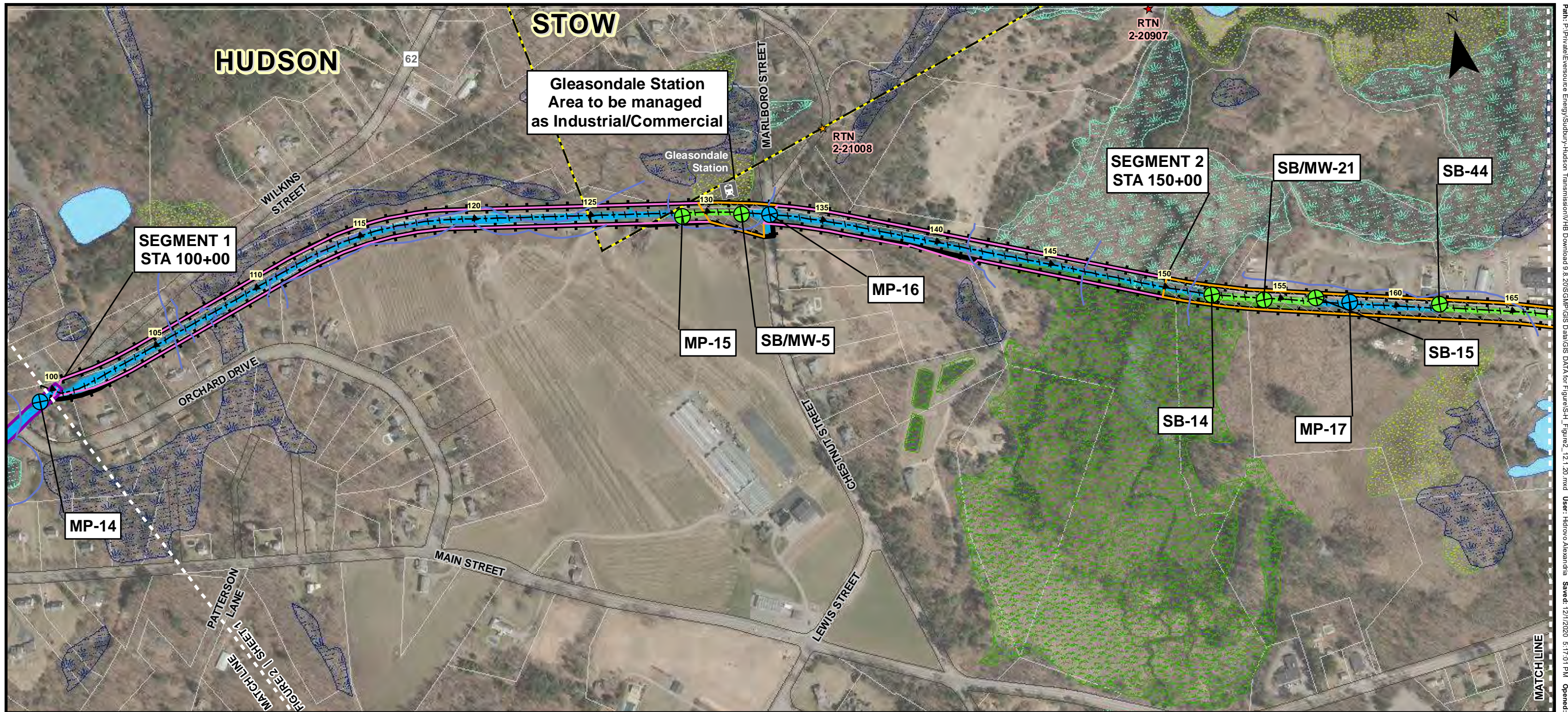


FIGURE 2 | Sheet 1 of 8
SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT
SOIL & GROUNDWATER
MANAGEMENT PLAN
 OCTOBER 2020 SCALE: NOTED



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Legend

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| <p>Project Area</p> <ul style="list-style-type: none"> — In-Road + MBTA ROW <p>MBTA Segments</p> <ul style="list-style-type: none"> Industrial /Commercial Residential /Rural <p>Town Information</p> <ul style="list-style-type: none"> Parcels Roads Boundary | <p>Wetland Areas</p> <ul style="list-style-type: none"> Bog Deep Marsh Shallow Marsh / Meadow Open Water Shrub Swamp Wooded Swamp <p>STA Callout</p> <ul style="list-style-type: none"> Centerline 50ft Interval 500ft Interval | <p>Soil Type</p> <ul style="list-style-type: none"> ● Type A Soils ● Type B-1 Soils ● Type C-1 Soils <p>MCP Disposal Sites</p> <ul style="list-style-type: none"> ★ Sites of Concern ★ All Other Sites <p> URAM Area</p> <p> Former Railroad Stations</p> <p>— Buffer Zones</p> |
|---|--|---|

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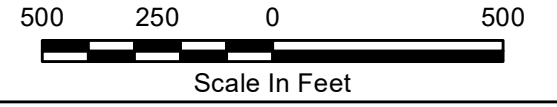


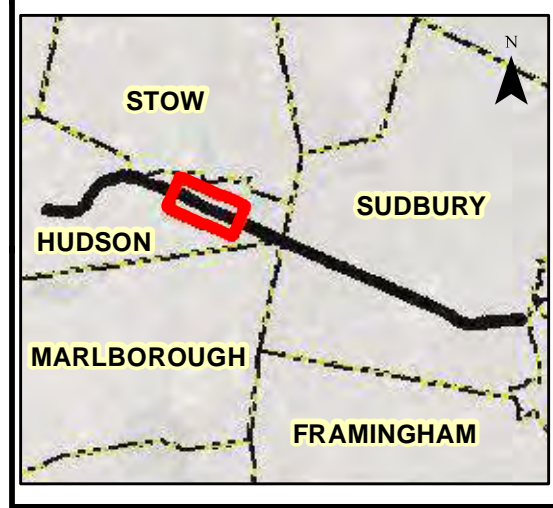
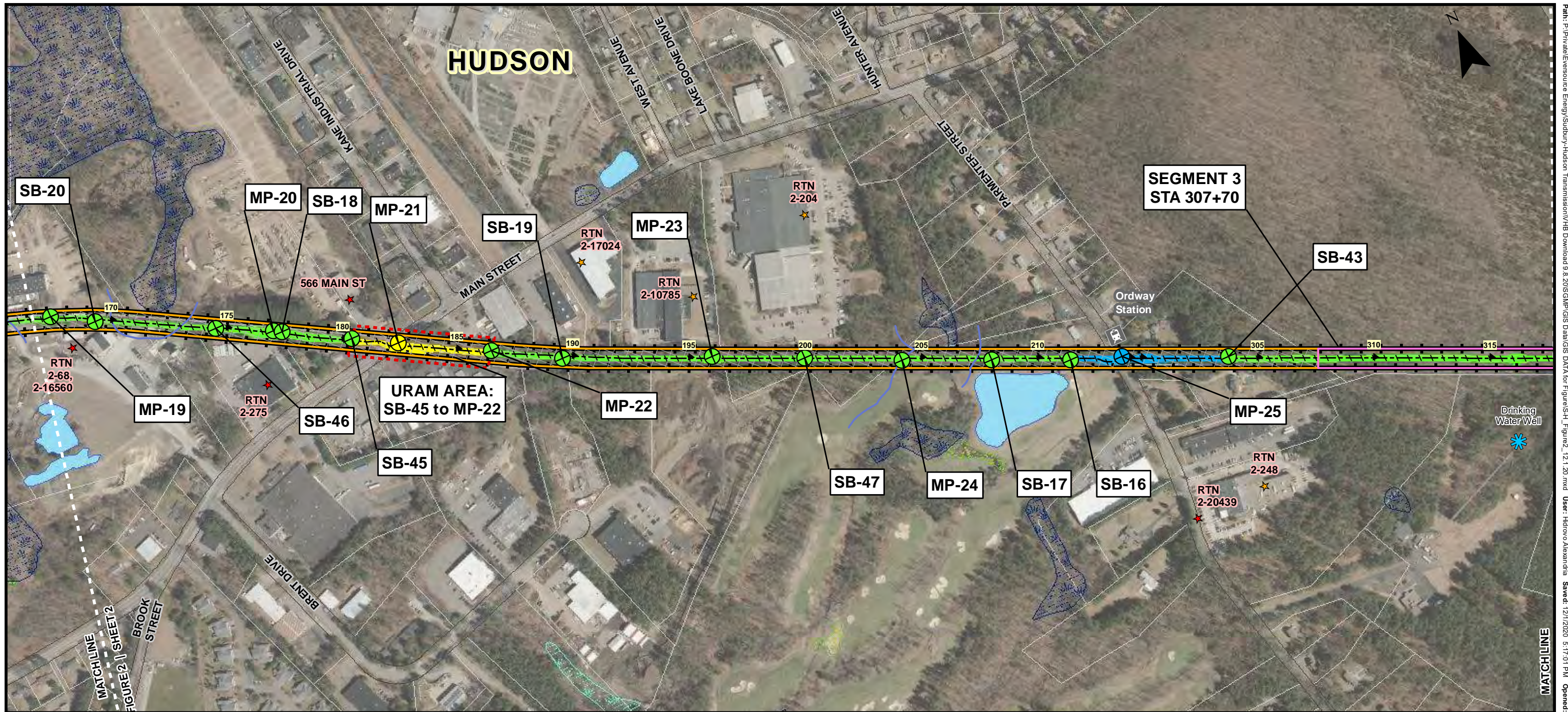
FIGURE 2 | Sheet 2 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED

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Legend

Project Area	Wetland Areas	Soil Type
— In-Road	Bog	● Type A Soils
⊕ MBTA ROW	Deep Marsh	● Type B-1 Soils
MBTA Segments	Shallow Marsh / Meadow	● Type C-1 Soils
Industrial / Commercial	Open Water	★ Sites of Concern
Residential / Rural	Shrub Swamp	★ All Other Sites
Town Information	Wooded Swamp	URAM Area
Parcels	STA Callout	Former Railroad Stations
Roads	--- Centerline	— Buffer Zones
Boundary	\ 50ft Interval	
	▲ 500ft Interval	

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Scale In Feet

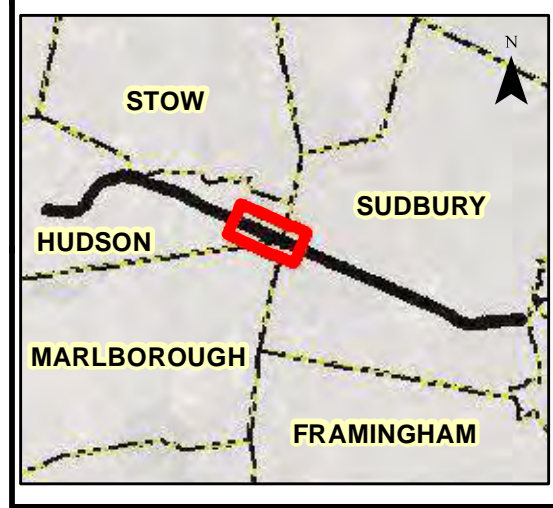
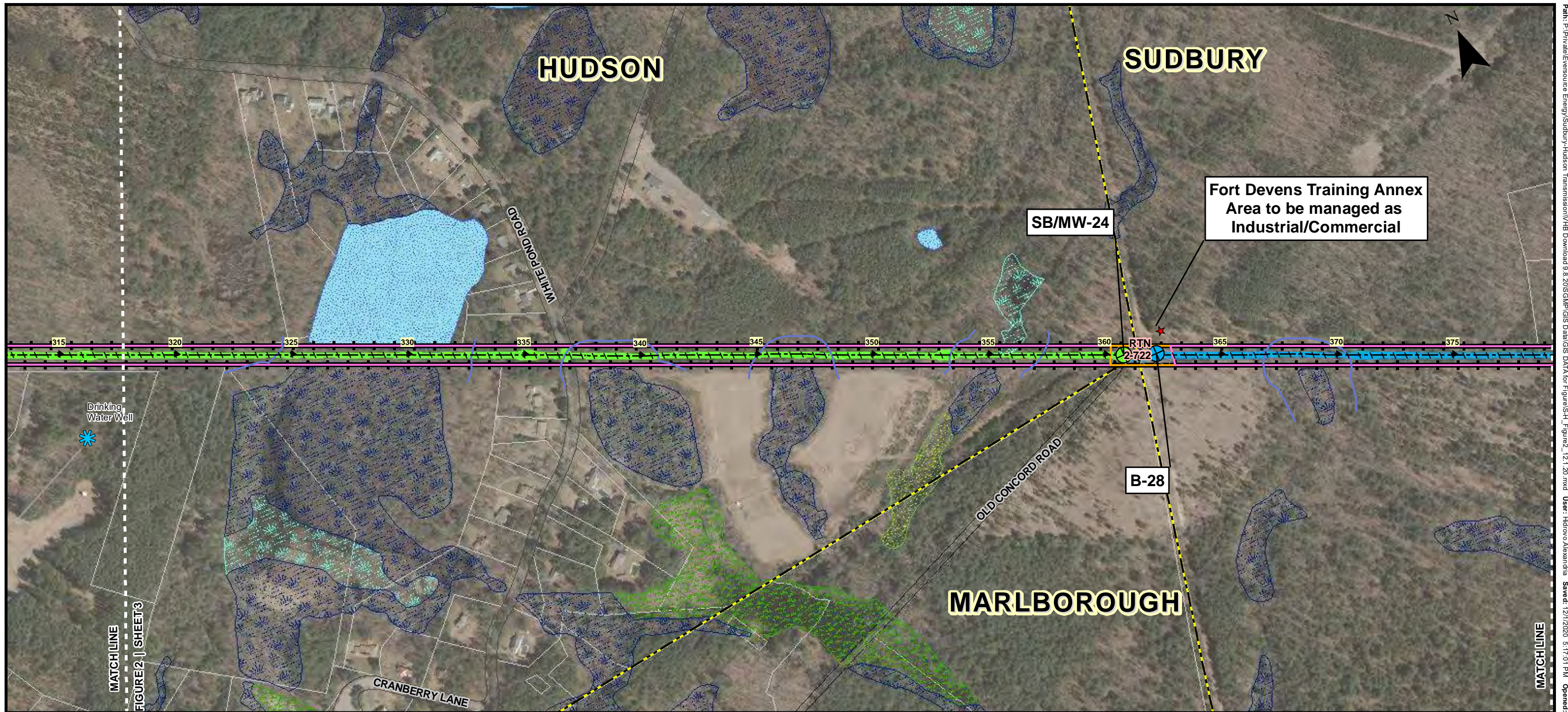
FIGURE 2 | Sheet 3 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED

Weston & Sampson



Legend

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|--|---|--|
| <p>Project Area</p> <ul style="list-style-type: none"> In-Road MBTA ROW <p>MBTA Segments</p> <ul style="list-style-type: none"> Industrial /Commercial Residential /Rural <p>Town Information</p> <ul style="list-style-type: none"> Parcels Roads Boundary | <p>Wetland Areas</p> <ul style="list-style-type: none"> Bog Deep Marsh Shallow Marsh / Meadow Open Water Shrub Swamp Wooded Swamp <p>STA Callout</p> <ul style="list-style-type: none"> Centerline 50ft Interval 500ft Interval | <p>Soil Type</p> <ul style="list-style-type: none"> Type A Soils Type B-1 Soils Type C-1 Soils <p>MCP Disposal Sites</p> <ul style="list-style-type: none"> Sites of Concern All Other Sites <p> URAM Area</p> <p> Former Railroad Stations</p> <p> Buffer Zones</p> |
|--|---|--|

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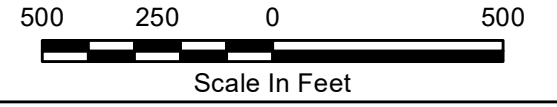
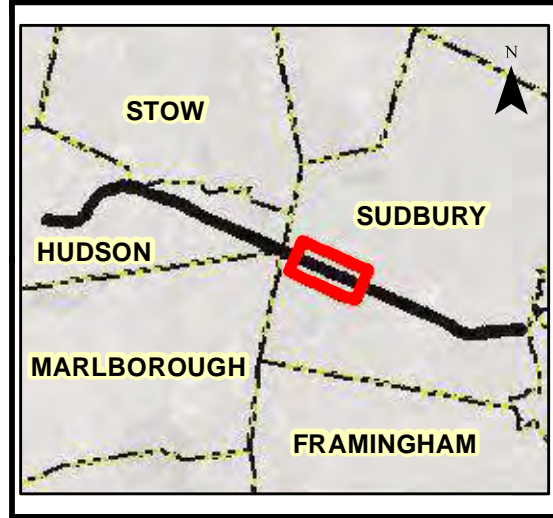
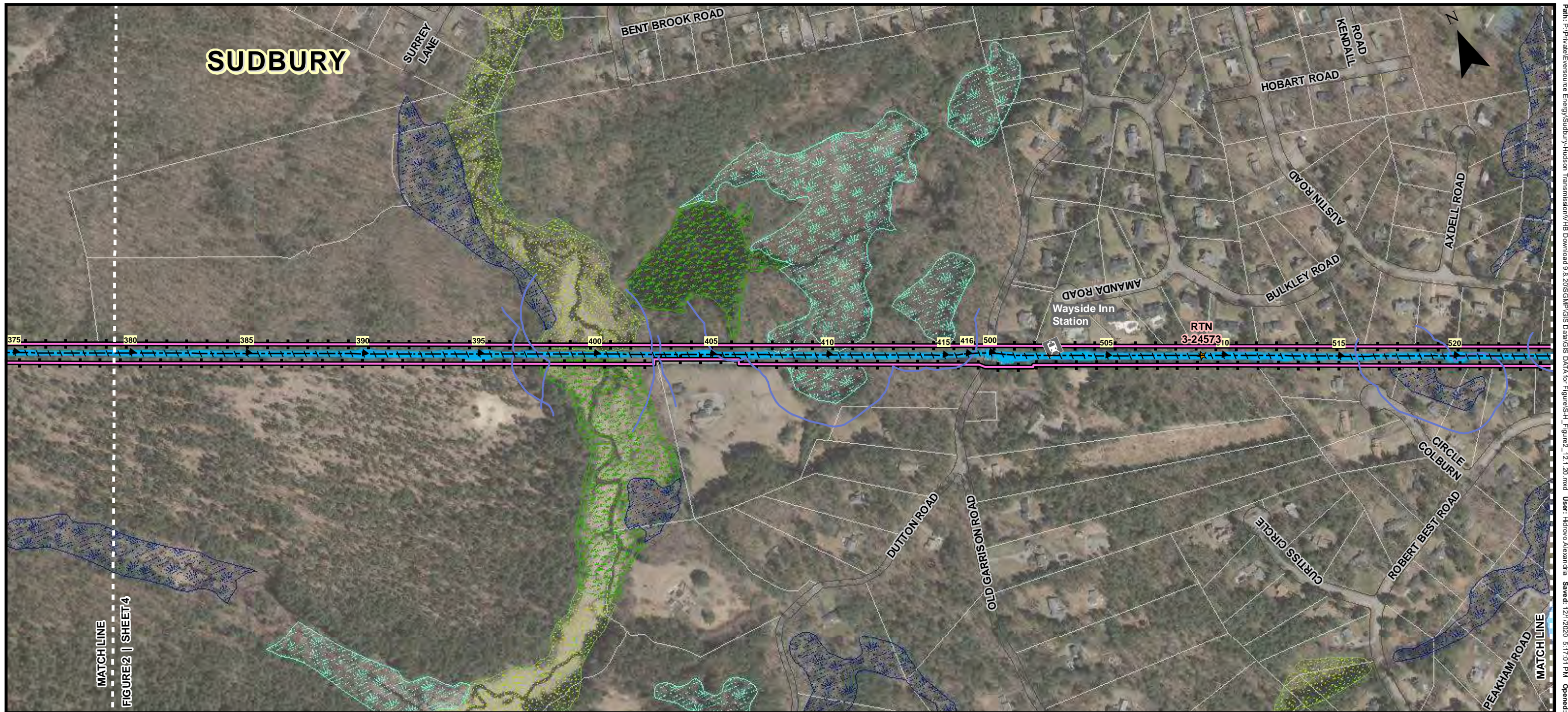


FIGURE 2 | Sheet 4 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED



Legend

- Project Area**
 - In-Road
 - + MBTA ROW
- MBTA Segments**
 - Industrial /Commercial
 - Residential /Rural
- Town Information**
 - Parcels
 - Roads
 - Boundary
- Wetland Areas**
 - Bog
 - Deep Marsh
 - Shallow Marsh /Meadow
 - Open Water
 - Shrub Swamp
 - Wooded Swamp
- STA Callout**
 - Centerline
 - 50ft Interval
 - 500ft Interval
- Soil Type**
 - Type A Soils
 - Type B-1 Soils
 - Type C-1 Soils
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM Area**
 - URAM Area
- Former Railroad Stations**
 - Former Railroad Stations
- Buffer Zones**
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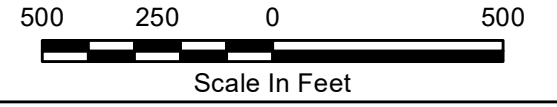
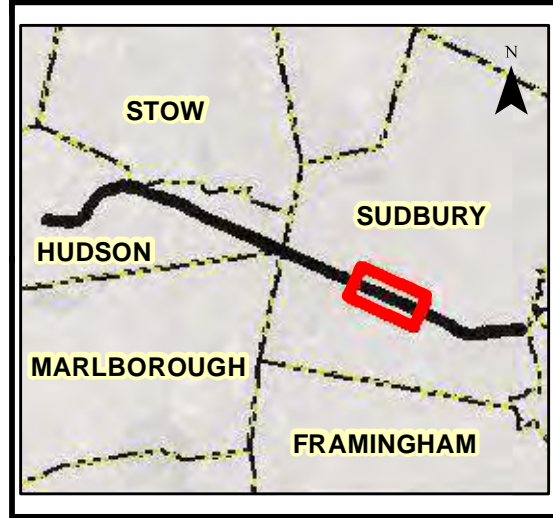


FIGURE 2 | Sheet 5 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED



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| <p>Project Area</p> <ul style="list-style-type: none"> — In-Road + MBTA ROW <p>MBTA Segments</p> <ul style="list-style-type: none"> Industrial /Commercial Residential /Rural <p>Town Information</p> <ul style="list-style-type: none"> Parcels Roads Boundary | <p>Wetland Areas</p> <ul style="list-style-type: none"> Bog Deep Marsh Shallow Marsh / Meadow Open Water Shrub Swamp Wooded Swamp <p>STA Callout</p> <ul style="list-style-type: none"> Centerline 50ft Interval 500ft Interval | <p>Soil Type</p> <ul style="list-style-type: none"> ⊕ Type A Soils ⊕ Type B-1 Soils ⊕ Type C-1 Soils <p>MCP Disposal Sites</p> <ul style="list-style-type: none"> ★ Sites of Concern ★ All Other Sites URAM Area Former Railroad Stations — Buffer Zones |
|---|---|--|

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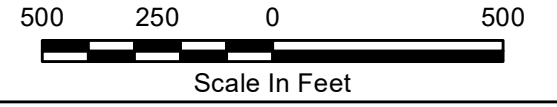
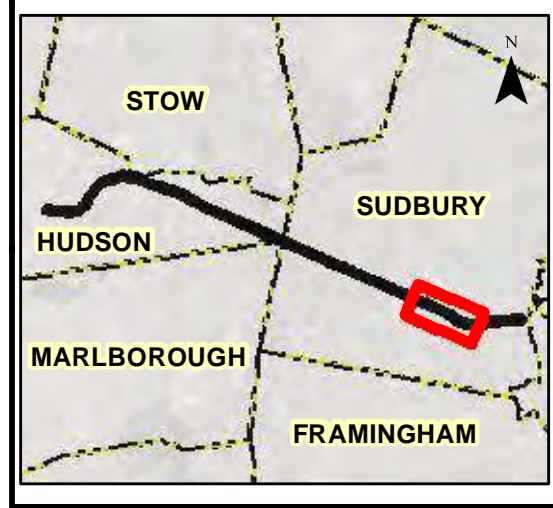
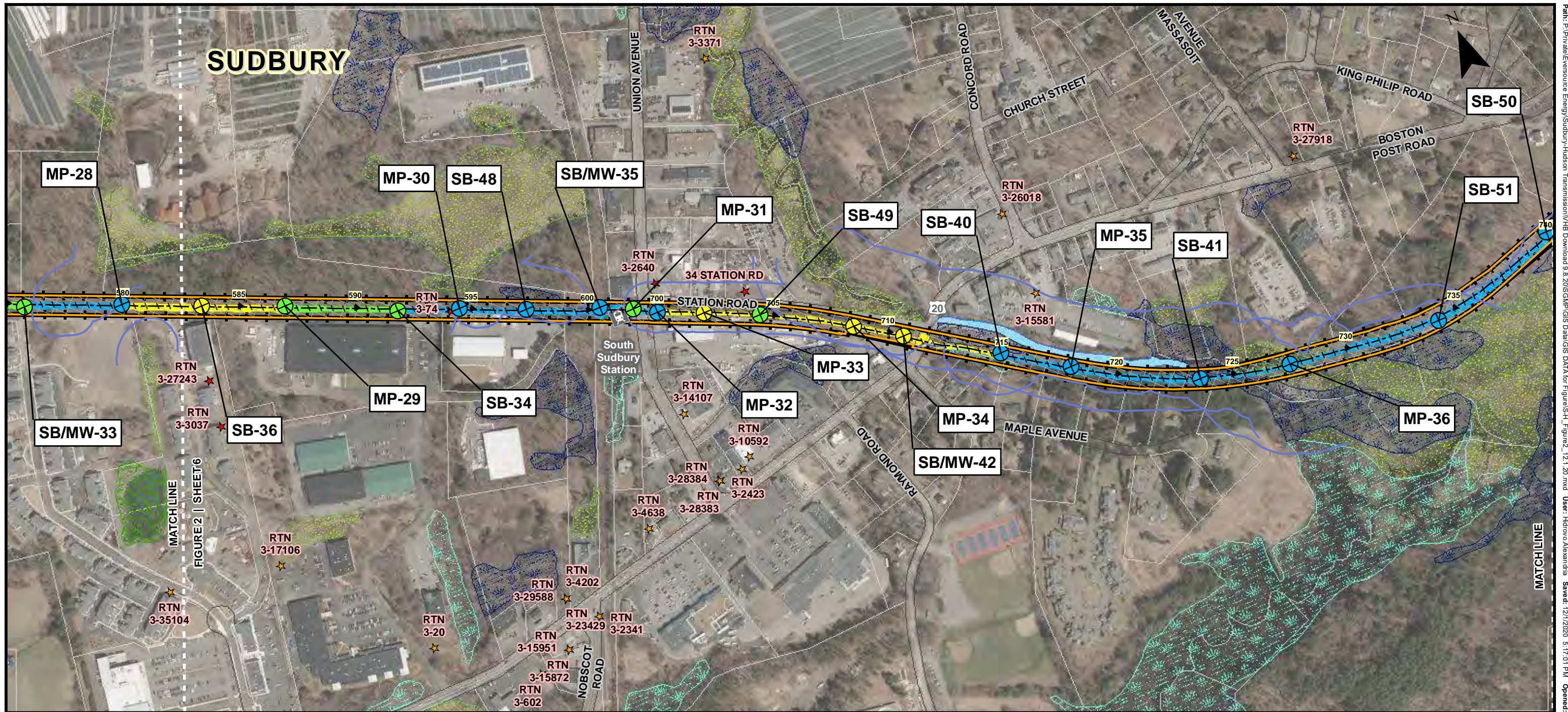


FIGURE 2 | Sheet 6 of 8
SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT
SOIL & GROUNDWATER
MANAGEMENT PLAN
 OCTOBER 2020 SCALE: NOTED





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| <p>Project Area</p> <ul style="list-style-type: none"> — In-Road + MBTA ROW <p>MBTA Segments</p> <ul style="list-style-type: none"> Industrial /Commercial Residential /Rural <p>Town Information</p> <ul style="list-style-type: none"> Parcels Roads Boundary | <p>Wetland Areas</p> <ul style="list-style-type: none"> Bog Deep Marsh Shallow Marsh / Meadow Open Water Shrub Swamp Wooded Swamp <p>STA Callout</p> <ul style="list-style-type: none"> Centerline 50ft Interval 500ft Interval | <p>Soil Type</p> <ul style="list-style-type: none"> Type A Soils Type B-1 Soils Type C-1 Soils <p>MCP Disposal Sites</p> <ul style="list-style-type: none"> ★ Sites of Concern ★ All Other Sites URAM Area Former Railroad Stations Buffer Zones |
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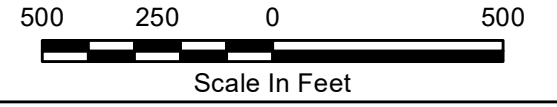


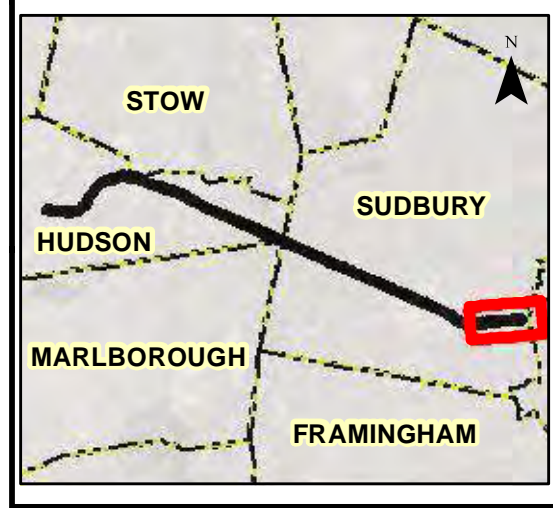
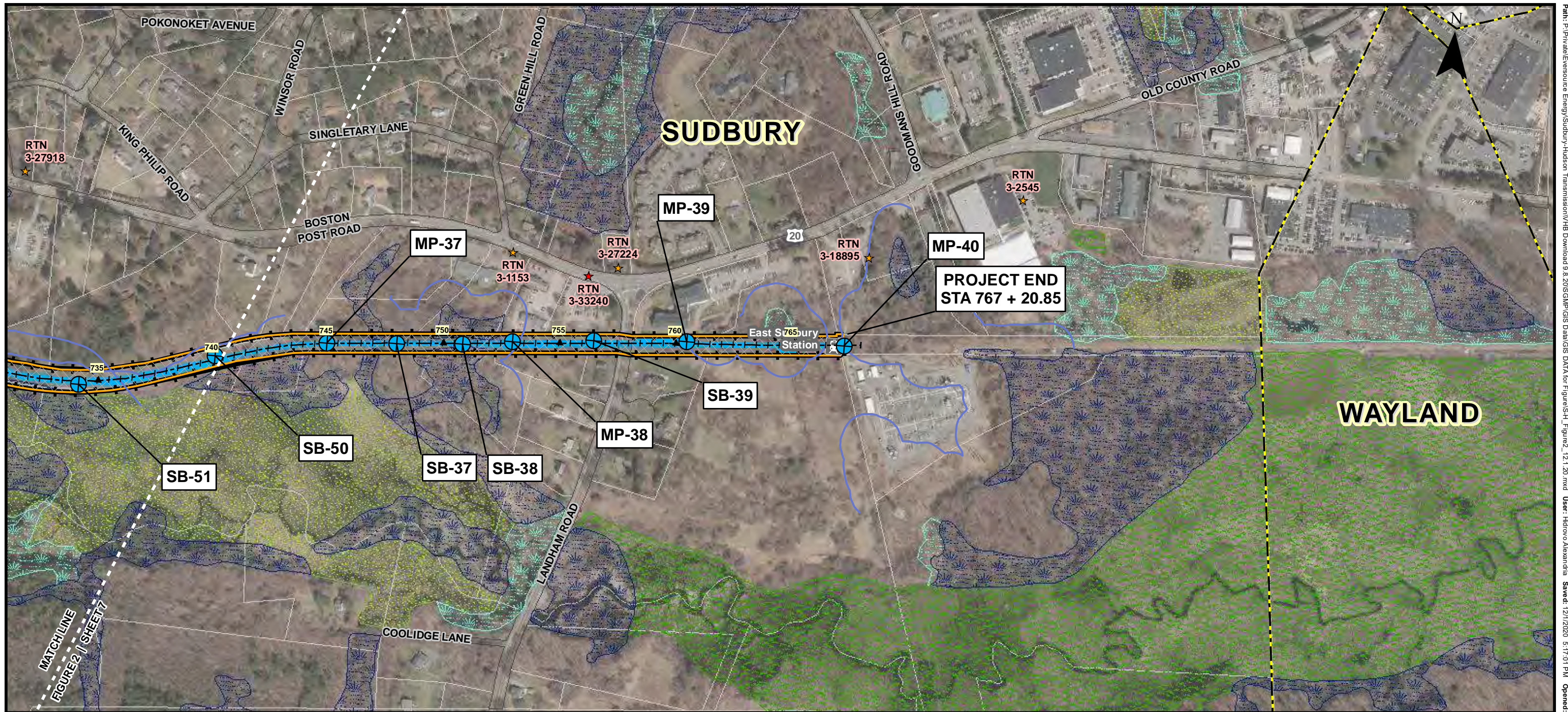
FIGURE 2 | Sheet 7 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED





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| <p>Project Area</p> <ul style="list-style-type: none"> — In-Road — MBTA ROW <p>MBTA Segments</p> <ul style="list-style-type: none"> Industrial / Commercial Residential / Rural <p>Town Information</p> <ul style="list-style-type: none"> Parcels Roads Boundary | <p>Wetland Areas</p> <ul style="list-style-type: none"> Bog Deep Marsh Shallow Marsh / Meadow Open Water Shrub Swamp Wooded Swamp <p>STA Callout</p> <ul style="list-style-type: none"> --- Centerline \ 50ft Interval ▲ 500ft Interval | <p>Soil Type</p> <ul style="list-style-type: none"> Type A Soils Type B-1 Soils Type C-1 Soils <p>MCP Disposal Sites</p> <ul style="list-style-type: none"> Sites of Concern All Other Sites <p>URAM Area</p> <ul style="list-style-type: none"> Former Railroad Stations Buffer Zones |
|---|--|--|

Type A Soil: Reuse at Sand and Gravel facility: Soils which do not contain oil or hazardous material (OHM) or contain OHM below levels consistent with "natural" soil per MassDEP's Similar Soils Provision Guidance (WSC-13-500) are not considered Remediation Waste; this includes soil that exhibits concentrations of TPH less than or equal to 25 parts per million (ppm). These "natural" soils may be reused at specific beneficial reuse locations on a case by case basis under the discretion of Eversource and may be reused at an active sand and gravel processing facility that holds a Site Assignment Authorization with approval from the LSP-of-Record.

Type B-1 Soil: Less than RCS-1 Beneficial Reuse: Soil containing OHM concentrations below MCP RCS-1 criteria can be used as fill material at off-site industrial/commercial locations provided that pre-existing OHM concentrations at the fill location are equal to or higher than those that exist in the construction generated soil and are not located within the Utility Related Abatement Measure (URAM). Facilities must have a MassDEP approved Administrative Consent Order (ACO) in place in accordance with MassDEP Interim Policy COMM-15-01.

Type C-1 Soil: Massachusetts Unlined Landfills: Soil that contains OHM concentrations above MCP RCS-1 levels but below the criteria for Massachusetts Unlined landfills per MassDEP Policy COMM-97-001.

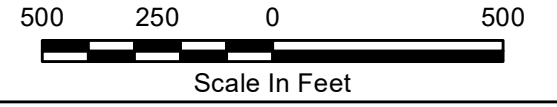


FIGURE 2 | Sheet 8 of 8

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**SOIL & GROUNDWATER
MANAGEMENT PLAN**

OCTOBER 2020 SCALE: NOTED



General Legend

- Project Area**
- In-Road
- + MBTA ROW
- MBTA Segments**
- Industrial
- /Commercial
- Residential
- /Rural
- MCP Disposal Sites**
- ★ Sites of Concern
- ★ All Other Sites
- URAM

- Town Information**
- Parcels
- Roads
- Boundary
- STA Callout**
- Work Limits
- \ 50ft Interval
- ▲ 500ft Interval
- Former Railroad Stations

- Wetland Information**
- Areas subject to Wetland Jurisdiction

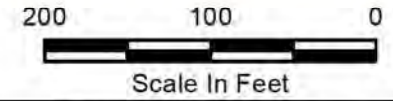


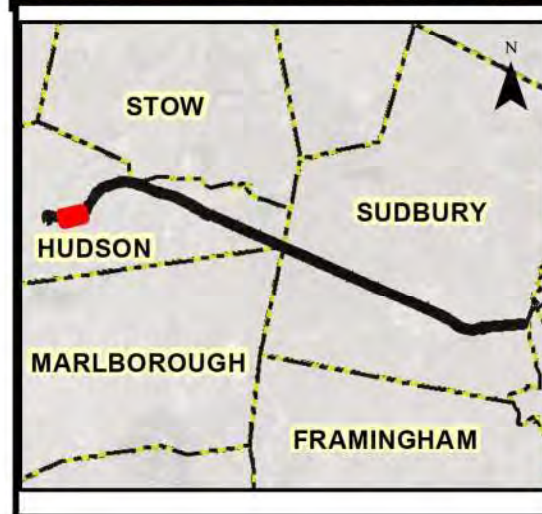
FIGURE 3 | Sheet 1 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - + MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - \ 50ft Interval
 - ▲ 500ft Interval
- Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

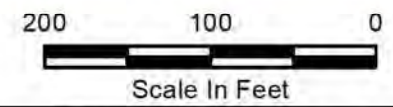


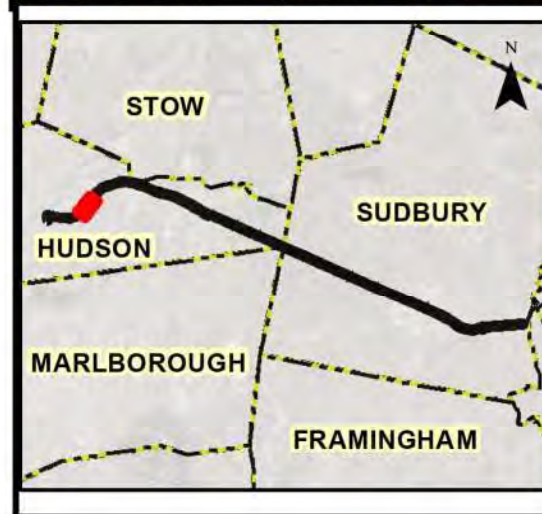
FIGURE 3 | Sheet 2 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - + MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
 - STA Callout
 - Work Limits
 - \ 50ft Interval
 - ▲ 500ft Interval
 - Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

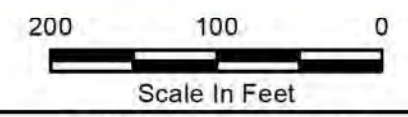


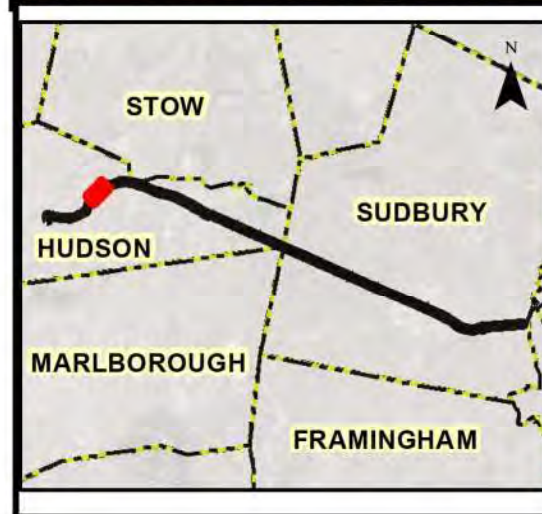
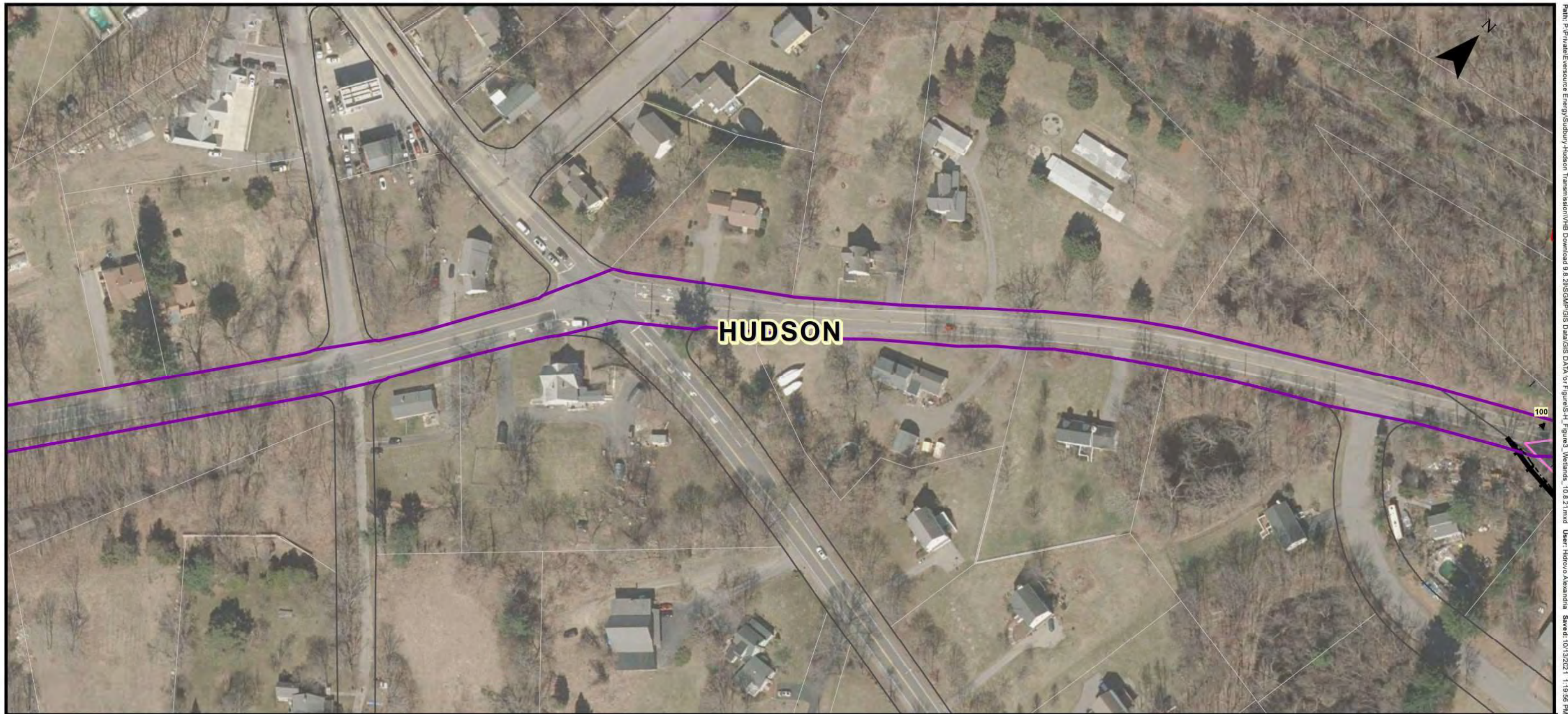
FIGURE 3 | Sheet 3 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - + MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - \ 50ft Interval
 - ▲ 500ft Interval
- Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

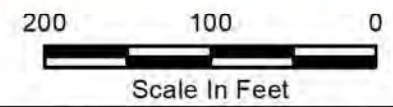
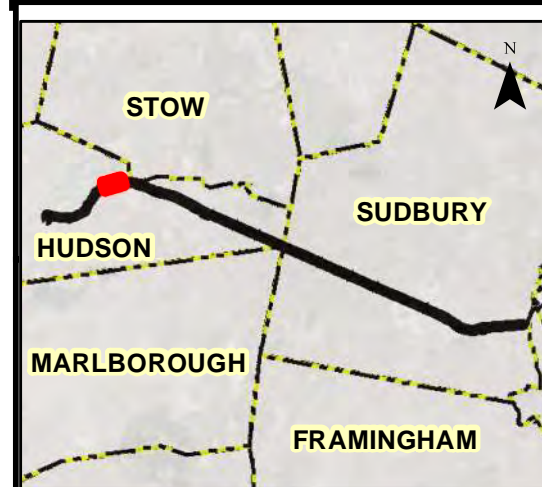


FIGURE 3 Sheet 4 of 29	
SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT	
WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT	
OCTOBER 2021	SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

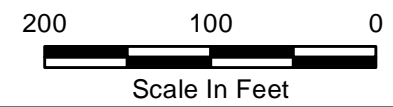


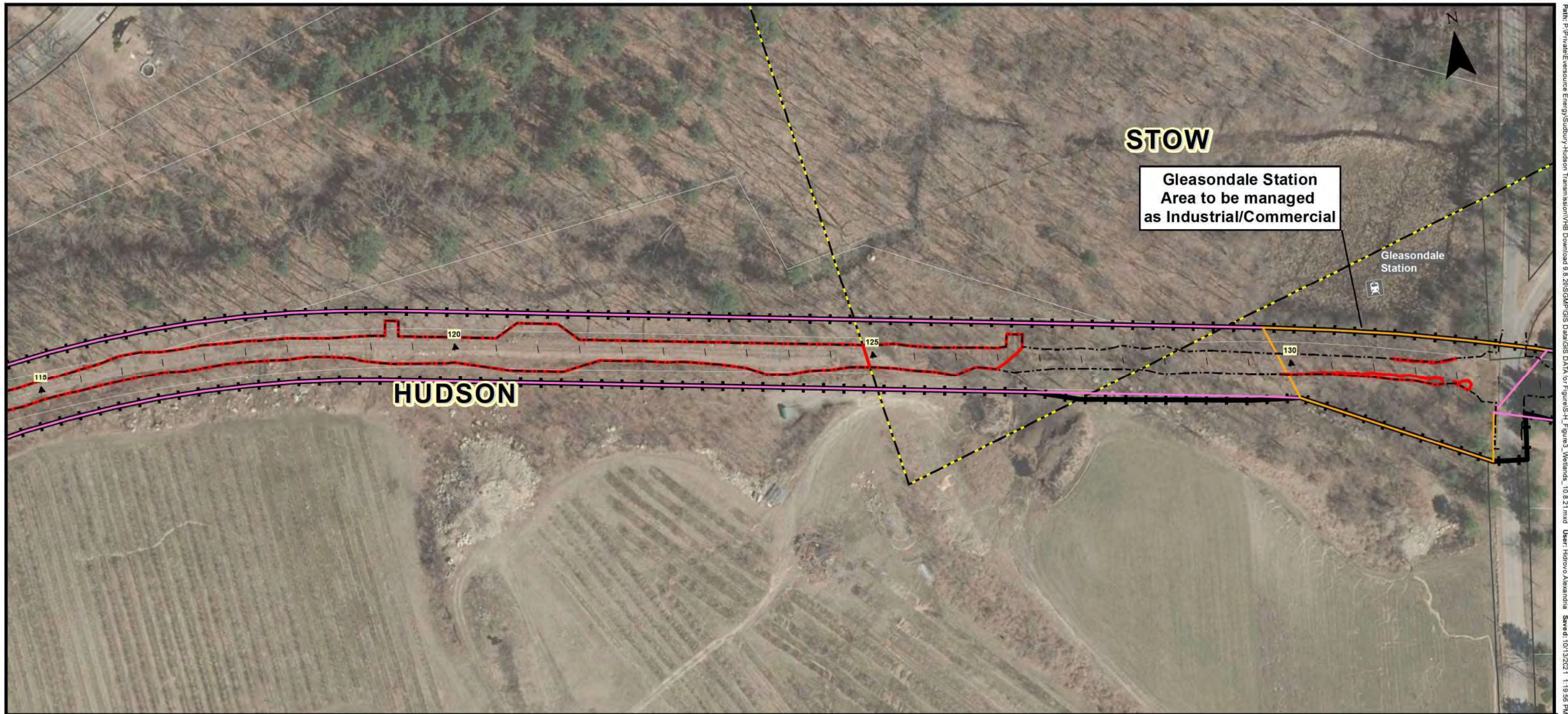
FIGURE 3 | Sheet 5 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial / Commercial
 - Residential / Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

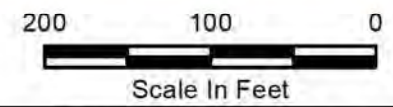
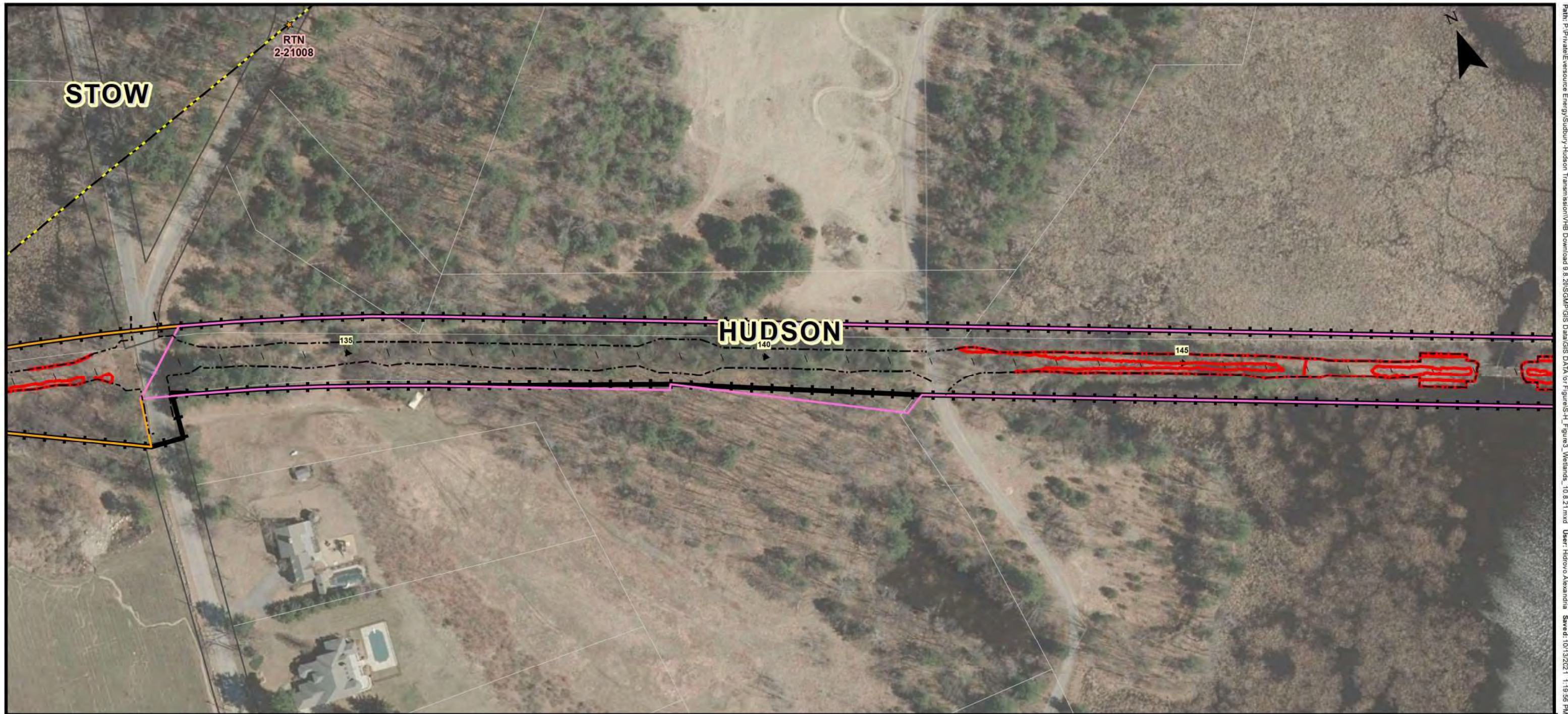


FIGURE 3 | Sheet 6 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

Project Area
 - In-Road
 - MBTA ROW

MBTA Segments
 - Industrial /Commercial
 - Residential /Rural

MCP Disposal Sites
 - Sites of Concern
 - All Other Sites

URAM

Town Information
 - Parcels
 - Roads
 - Boundary

STA Callout
 - Work Limits
 - 50ft Interval
 - 500ft Interval

Former Railroad Stations

Wetland Information
 - Areas subject to Wetland Jurisdiction

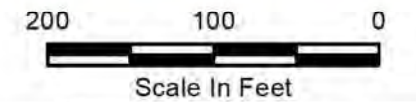


FIGURE 3 | Sheet 7 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

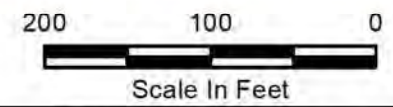


FIGURE 3 | Sheet 8 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - + MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - ★ Sites of Concern
 - ★ All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - \ 50ft Interval
 - ▲ 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

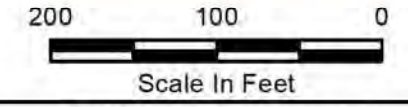


FIGURE 3 | Sheet 9 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

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General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

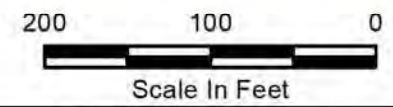


FIGURE 3 | Sheet 10 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

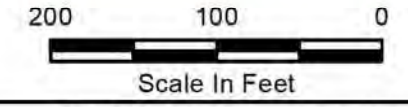
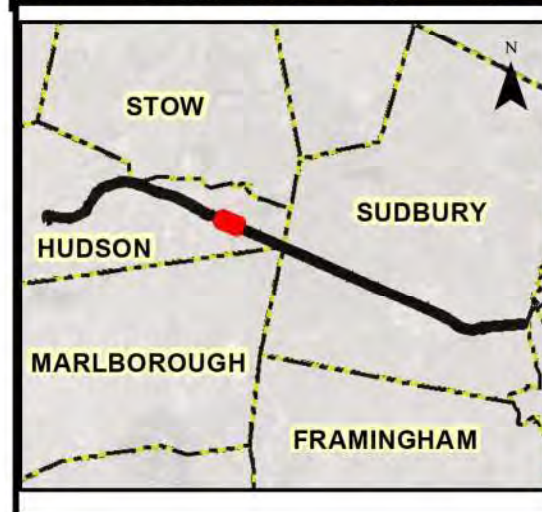
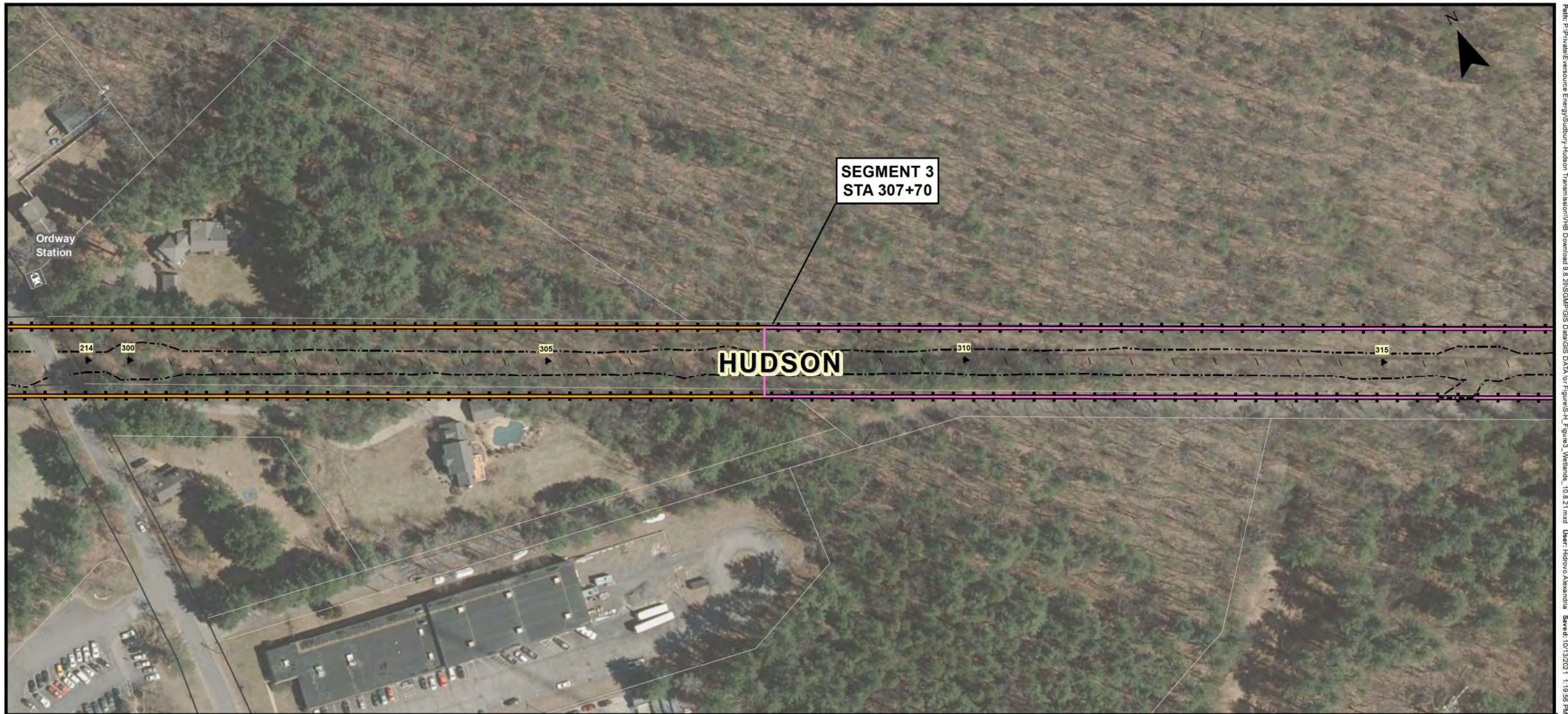


FIGURE 3 | Sheet 11 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial /Commercial
 - Residential /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

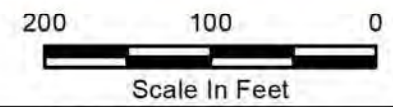
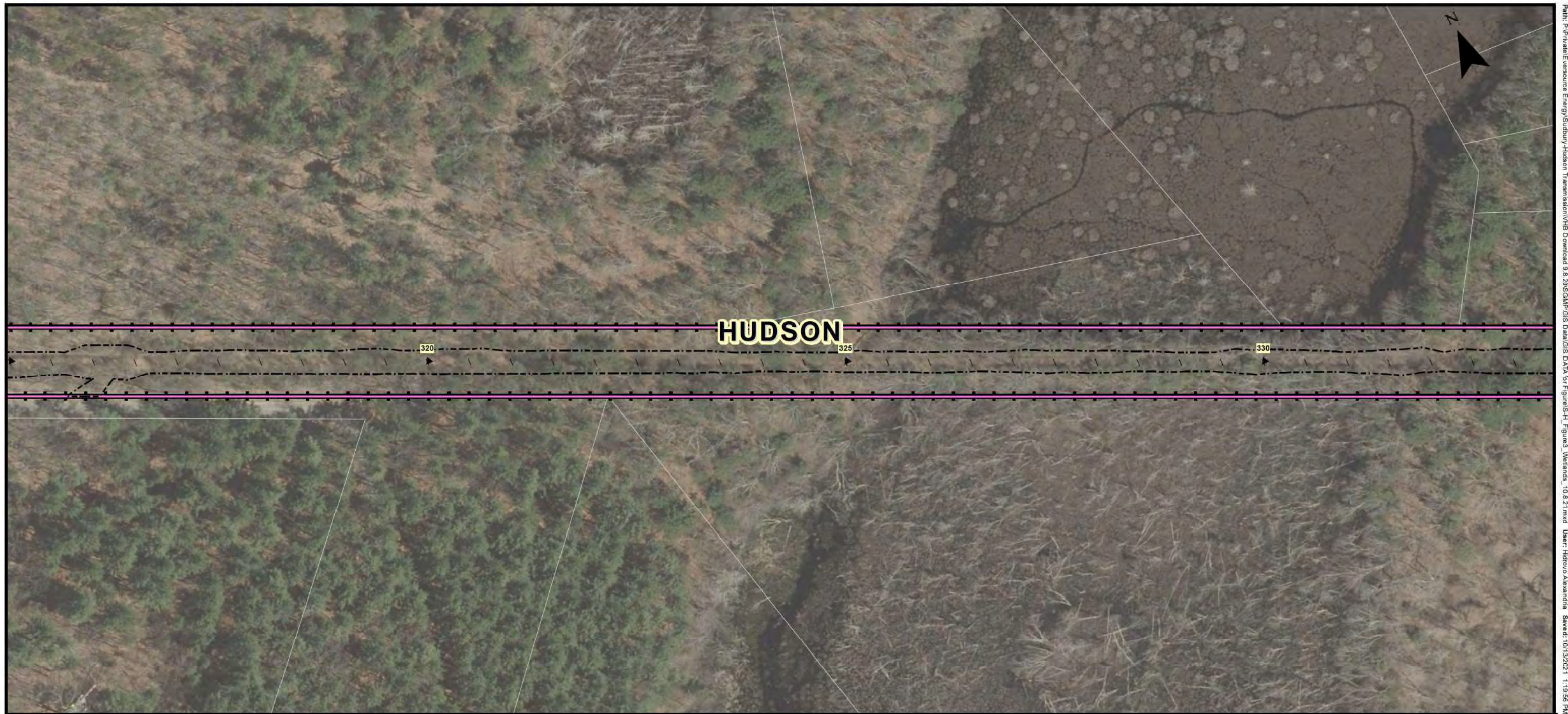


FIGURE 3 | Sheet 12 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
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- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

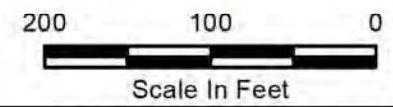


FIGURE 3 | Sheet 13 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial /Commercial
 - Residential /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

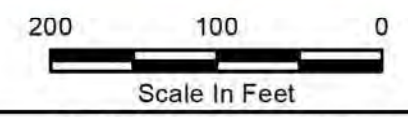
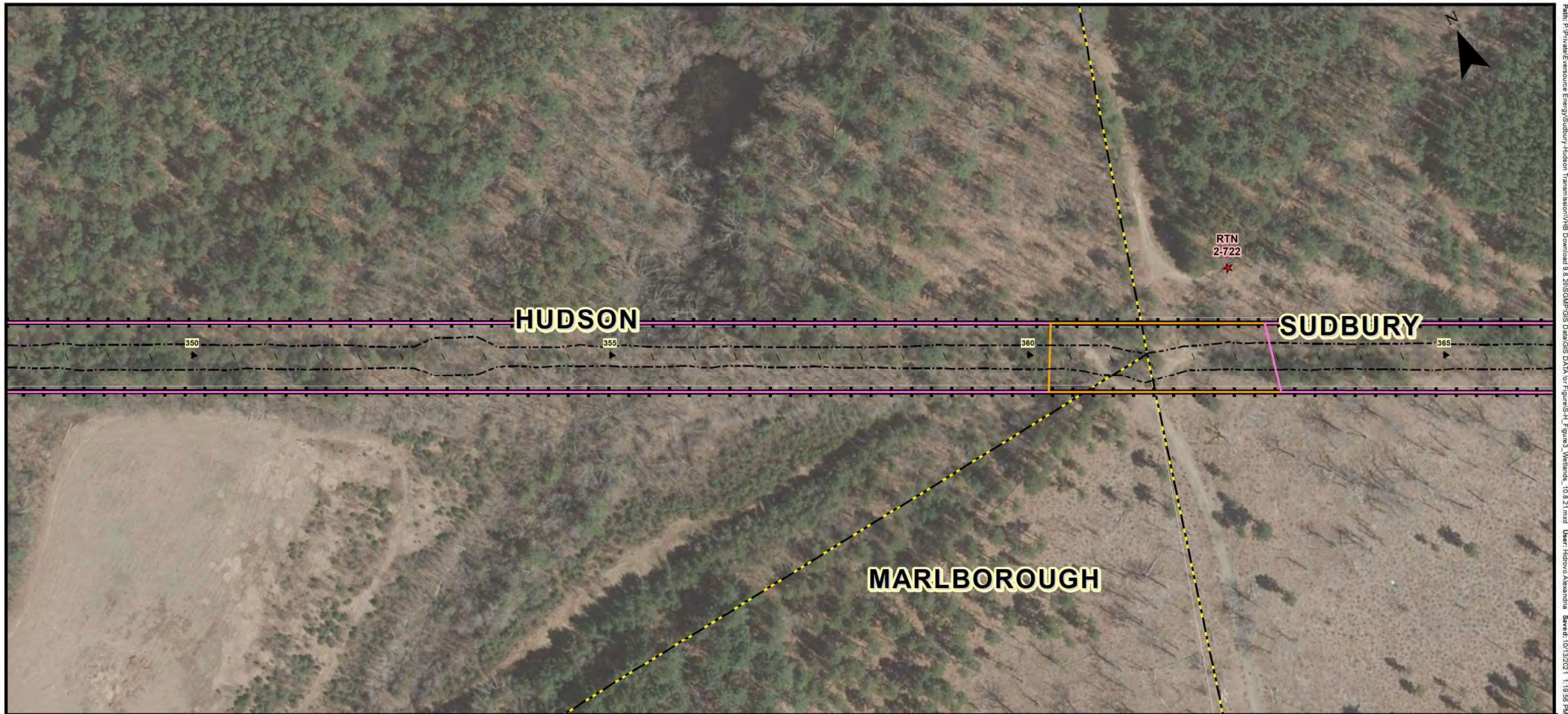


FIGURE 3 | Sheet 14 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
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- URAM

- Town Information**
 - Parcels
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 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

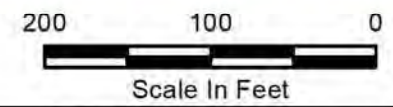
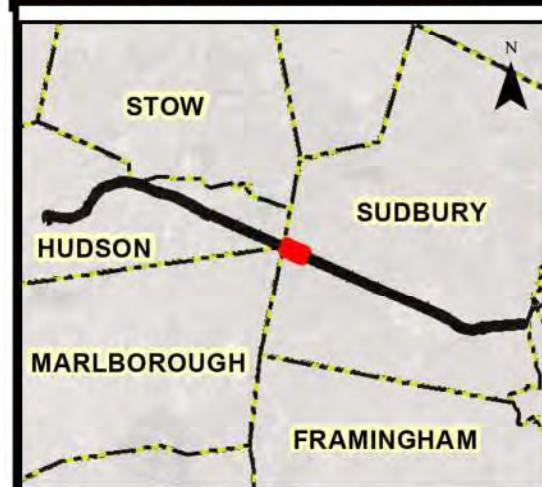
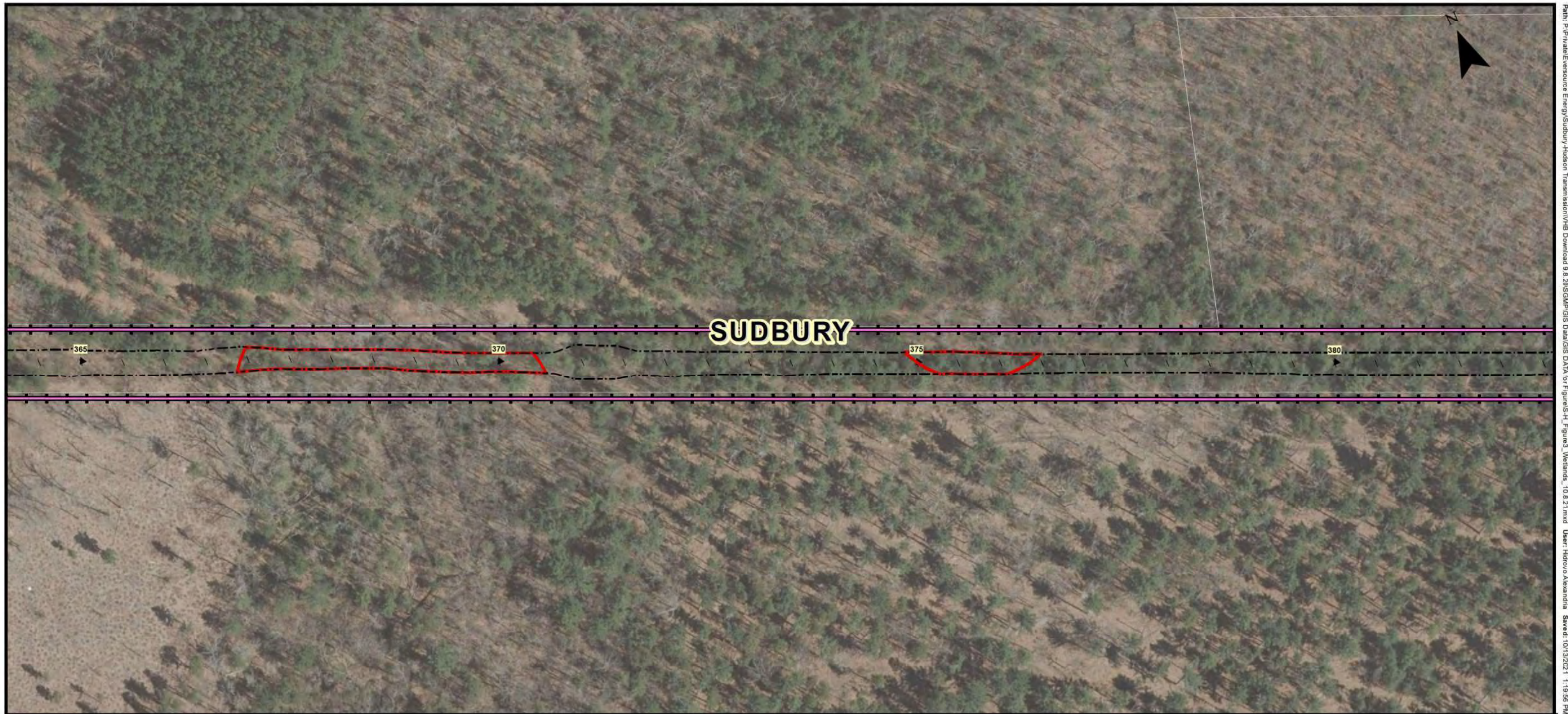


FIGURE 3 | Sheet 15 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
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 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

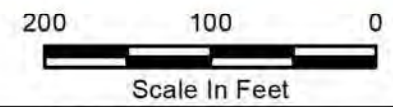
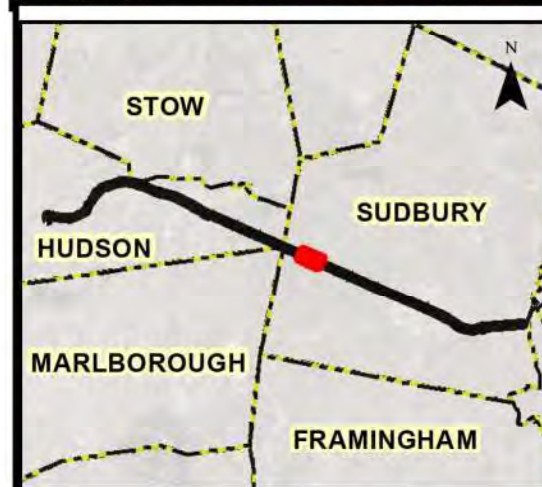
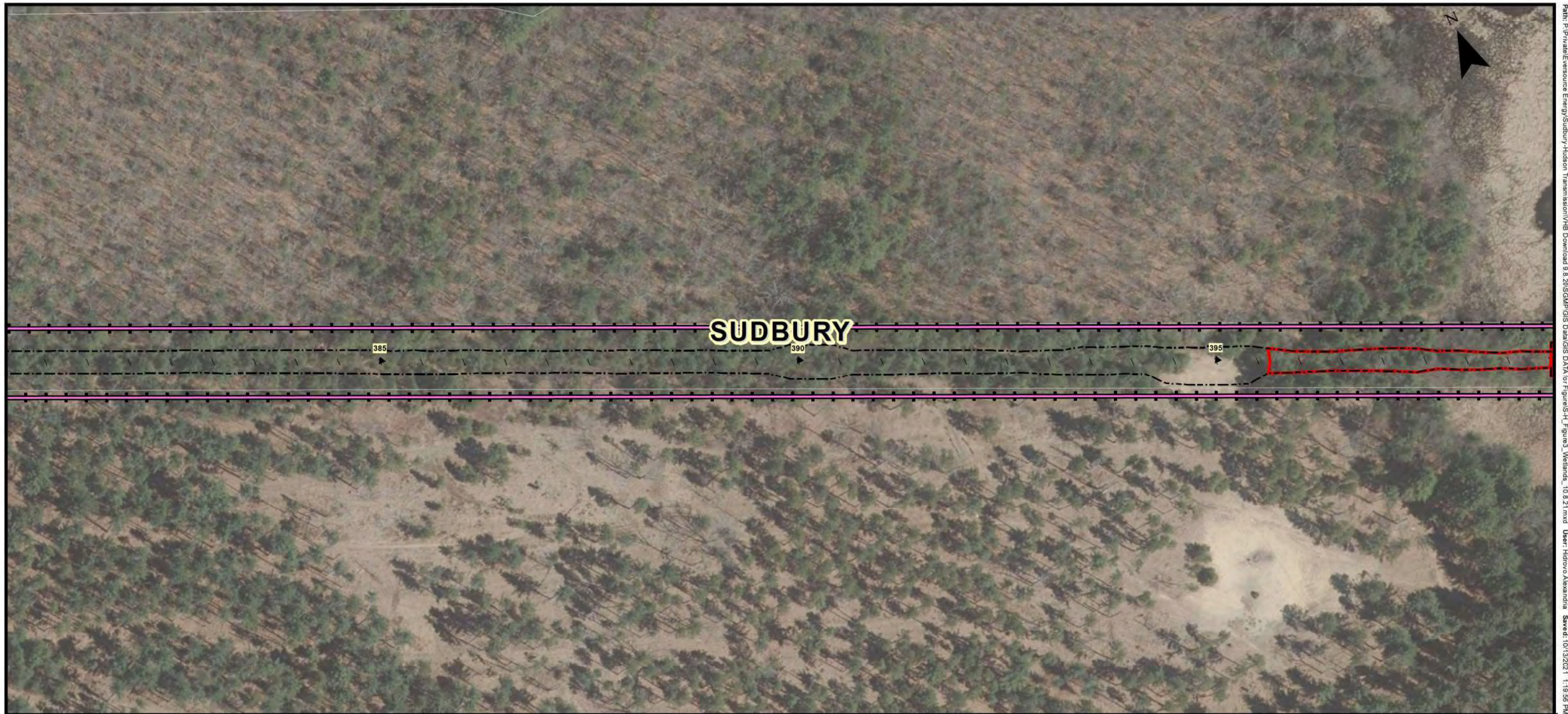


FIGURE 3 | Sheet 16 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

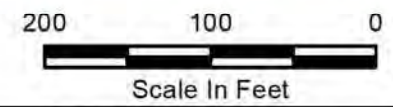


FIGURE 3 | Sheet 17 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

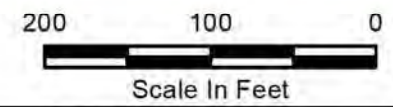


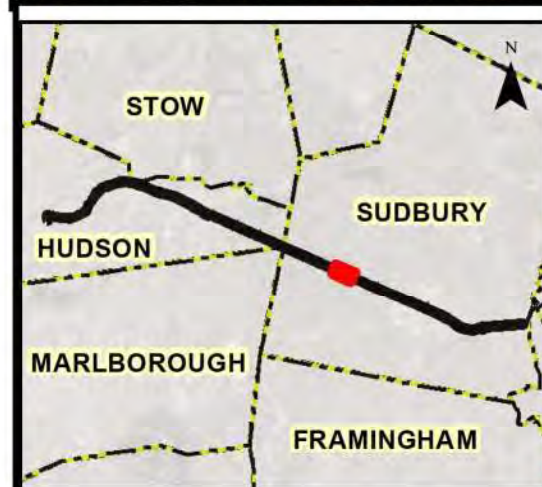
FIGURE 3 | Sheet 18 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

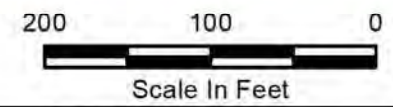


FIGURE 3 | Sheet 19 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
- In-Road
- MBTA ROW
- MBTA Segments**
- Industrial
- /Commercial
- Residential
- /Rural
- MCP Disposal Sites**
- Sites of Concern
- All Other Sites
- URAM

- Town Information**
- Parcels
- Roads
- Boundary
- STA Callout**
- Work Limits
- 50ft Interval
- 500ft Interval
- Former Railroad Stations**

- Wetland Information**
- Areas subject to Wetland Jurisdiction

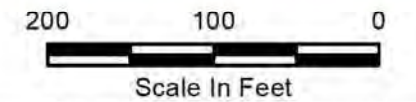
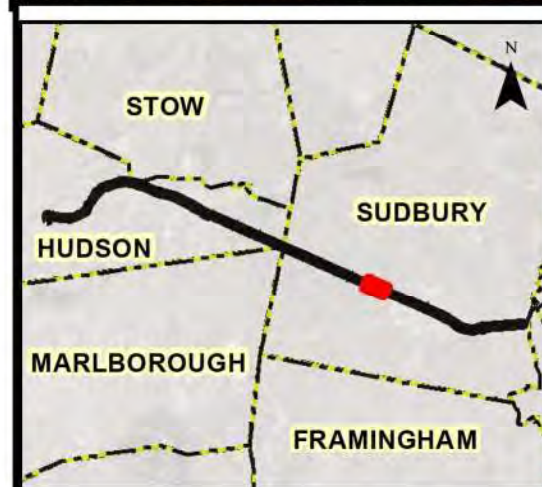
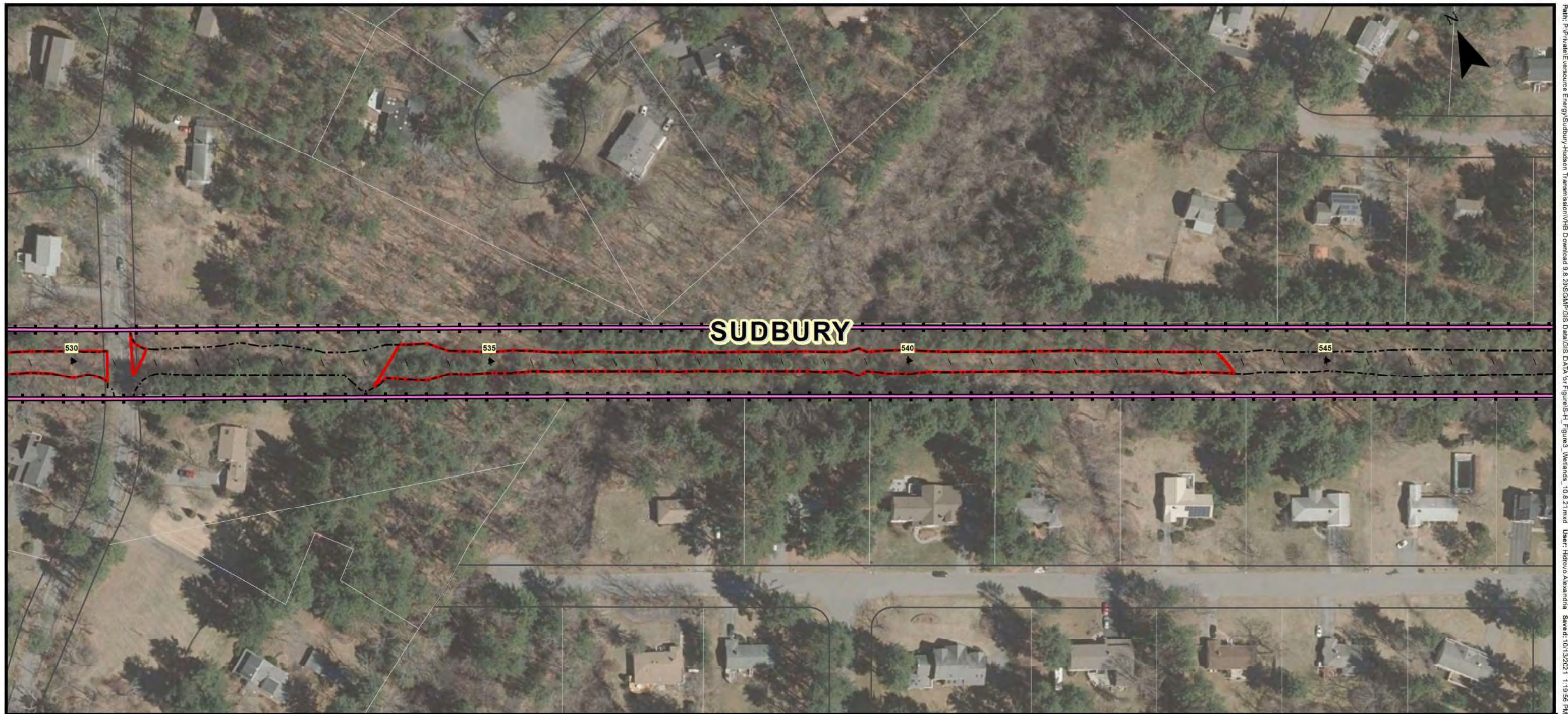


FIGURE 3 | Sheet 20 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

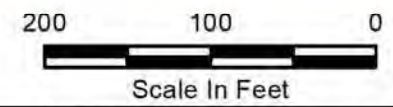
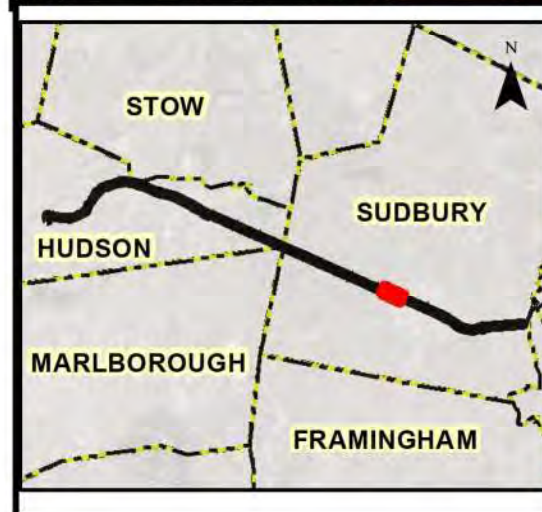


FIGURE 3 | Sheet 21 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

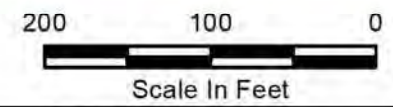


FIGURE 3 | Sheet 22 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
 - Residential
 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

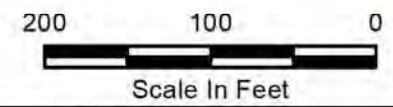
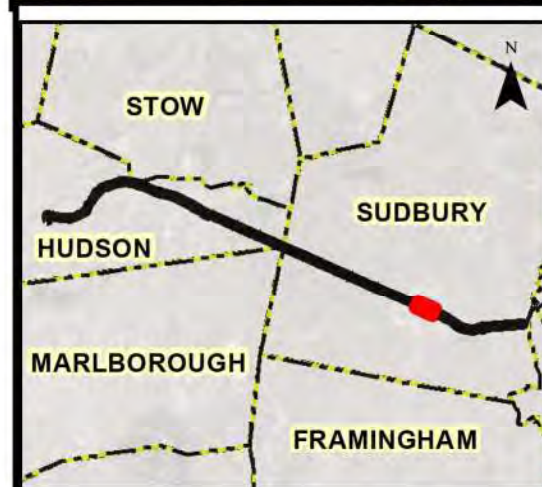
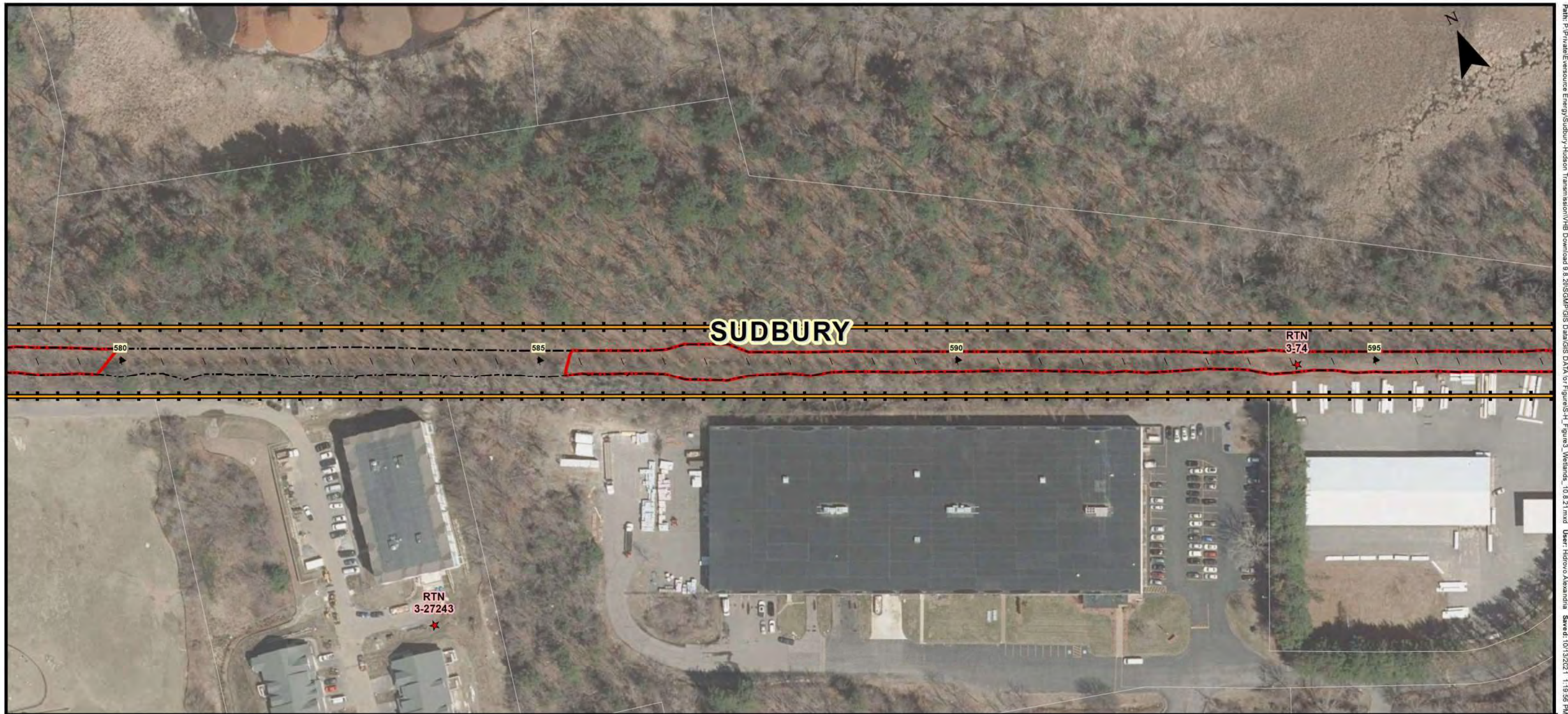


FIGURE 3 | Sheet 23 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - Commercial
 - Residential
 - Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

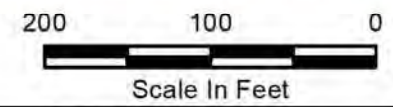
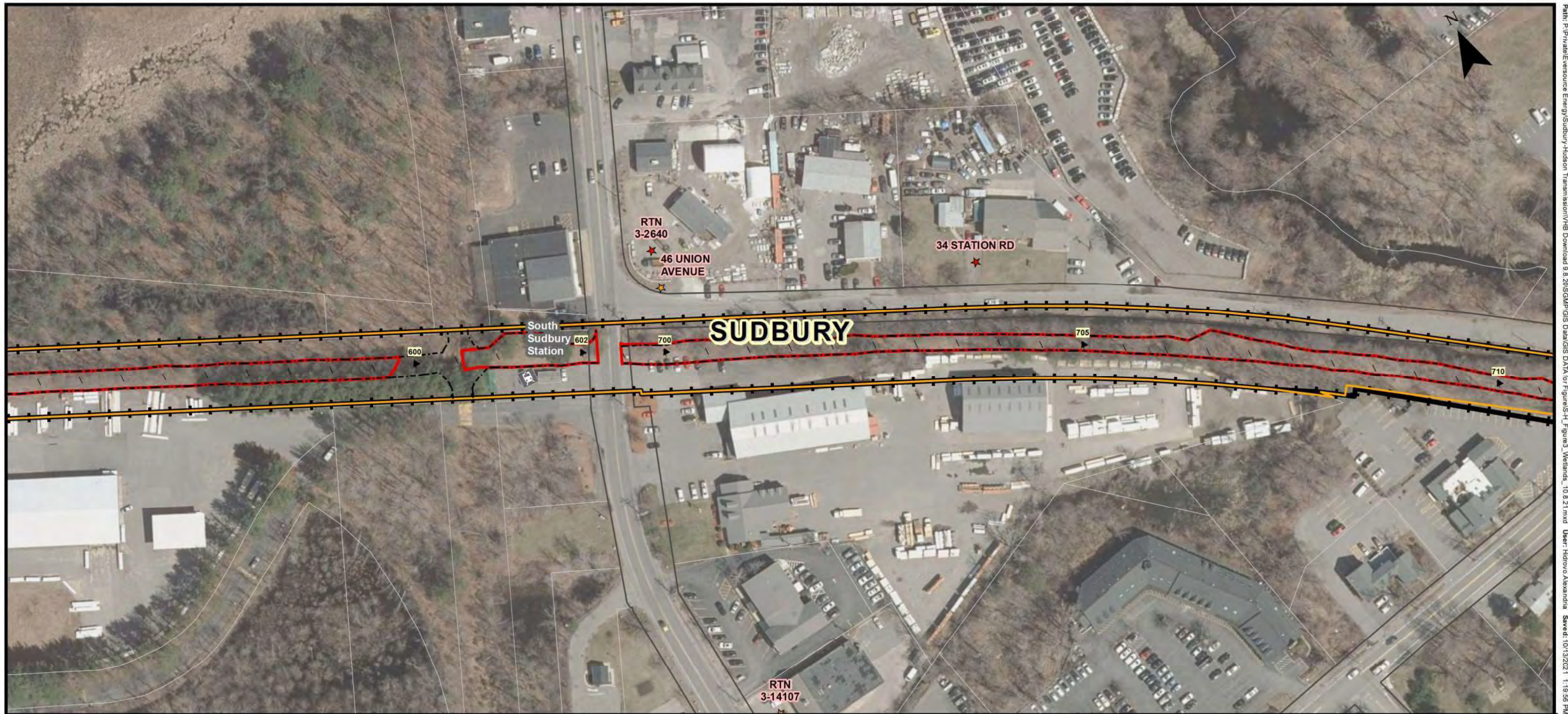


FIGURE 3 | Sheet 24 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
- In-Road
- + MBTA ROW
- MBTA Segments**
- Industrial
- /Commercial
- Residential
- /Rural
- MCP Disposal Sites**
- ★ Sites of Concern
- ★ All Other Sites
- URAM

- Town Information**
- Parcels
- Roads
- Boundary
- STA Callout**
- Work Limits
- ▼ 50ft Interval
- ▲ 500ft Interval
- Former Railroad Stations

- Wetland Information**
- Areas subject to Wetland Jurisdiction

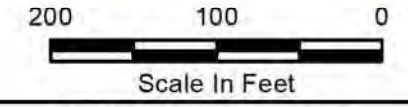
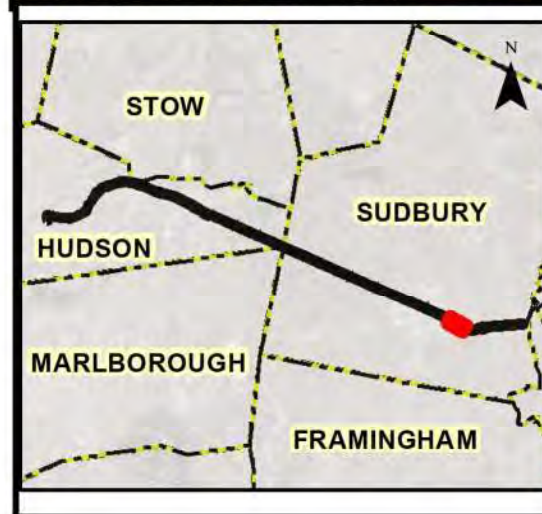
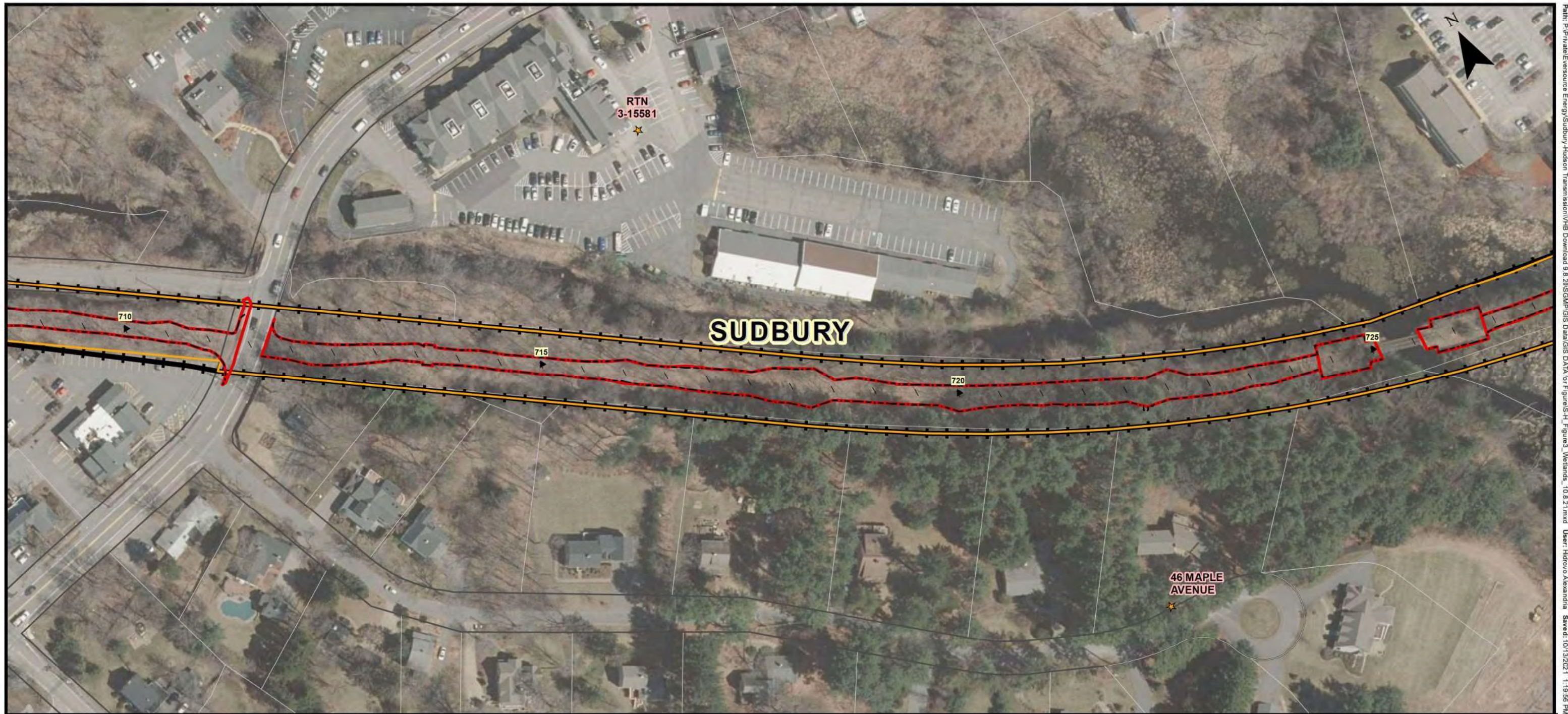


FIGURE 3 | Sheet 25 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial / Commercial
 - Residential / Rural
- MCP Disposal Sites**
 - Sites of Concern
 - All Other Sites
- URAM

- Town Information**
 - Parcels
 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

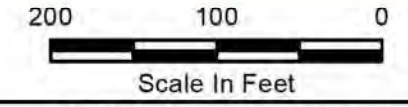


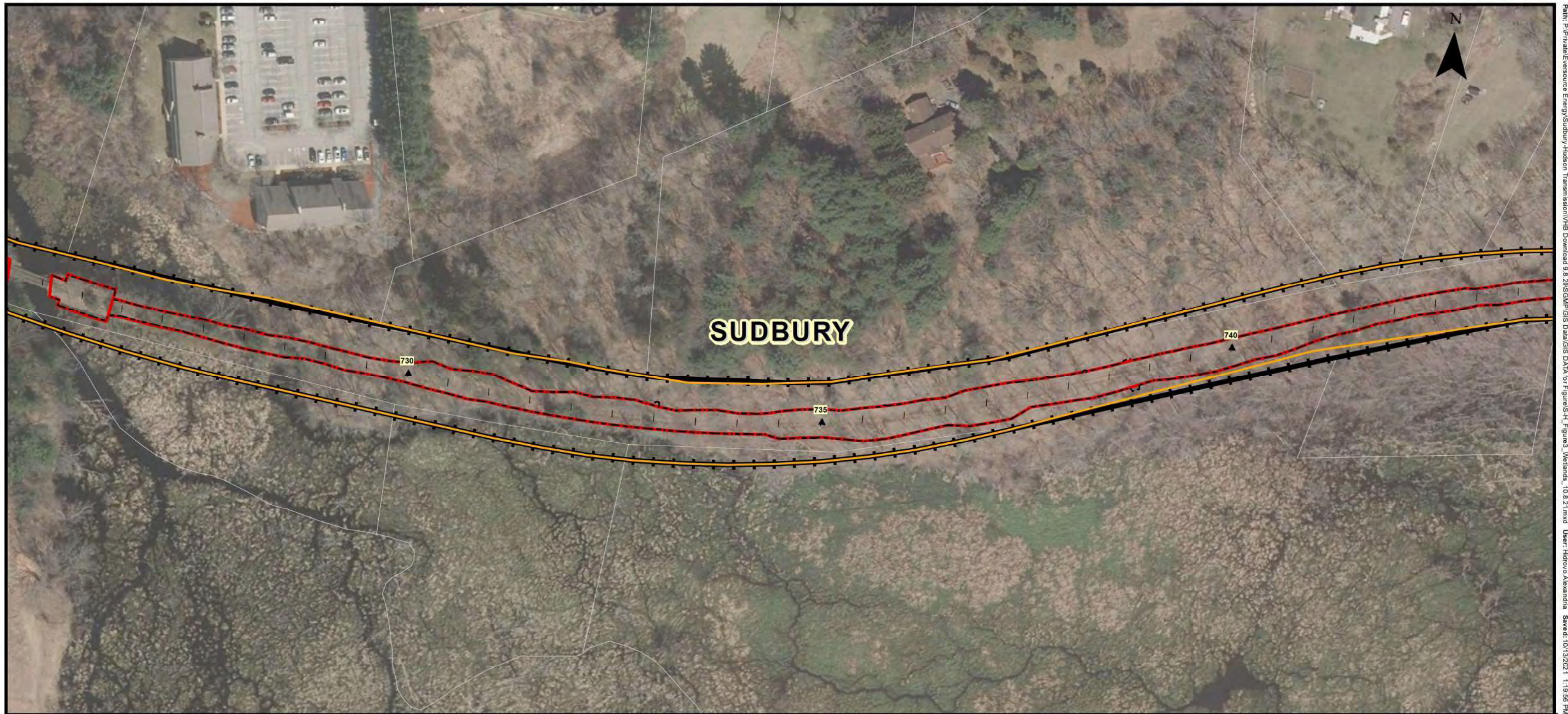
FIGURE 3 | Sheet 26 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED

Weston & Sampson



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
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 - /Rural
- MCP Disposal Sites**
 - Sites of Concern
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 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

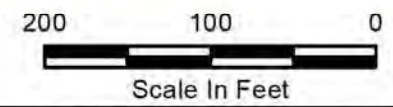
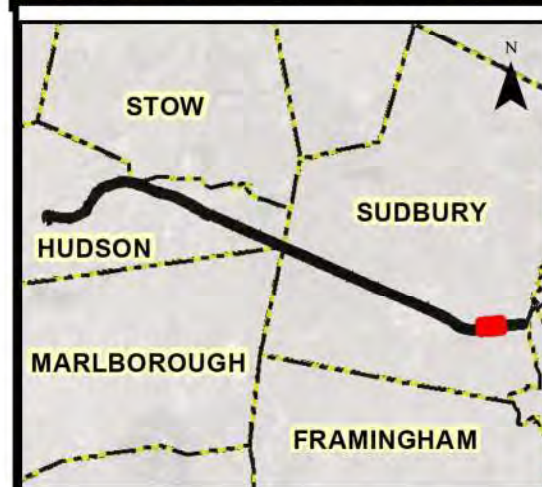
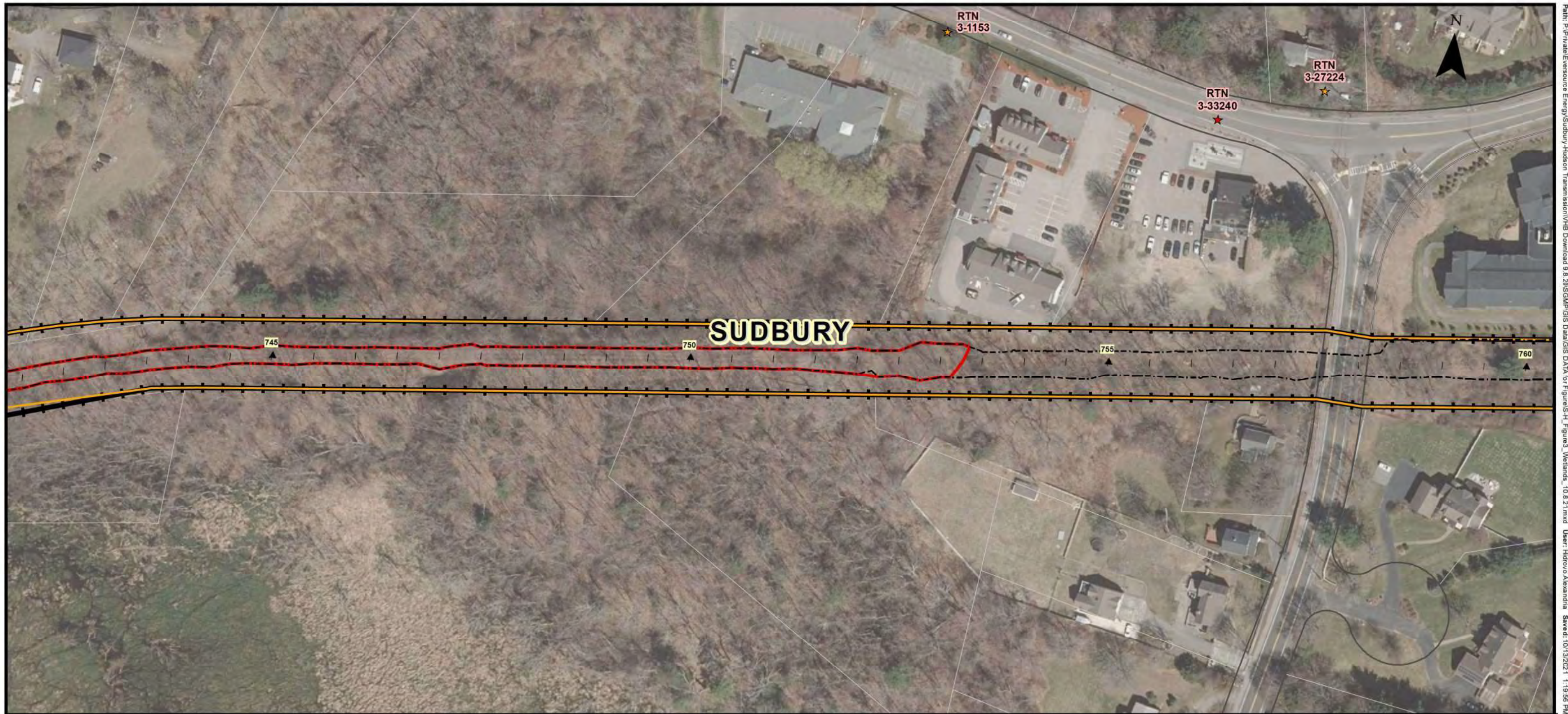


FIGURE 3 | Sheet 27 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
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 - Residential
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 - Sites of Concern
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- Town Information**
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 - Roads
 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

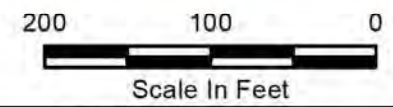


FIGURE 3 | Sheet 28 of 29

**SUDBURY TO HUDSON
TRANSMISSION RELIABILITY PROJECT**

**WETLAND RESOURCE AREAS
JURISDICTIONAL LIMIT**

OCTOBER 2021 SCALE: NOTED



General Legend

- Project Area**
 - In-Road
 - MBTA ROW
- MBTA Segments**
 - Industrial
 - /Commercial
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- Town Information**
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 - Boundary
- STA Callout**
 - Work Limits
 - 50ft Interval
 - 500ft Interval
- Former Railroad Stations**

- Wetland Information**
 - Areas subject to Wetland Jurisdiction

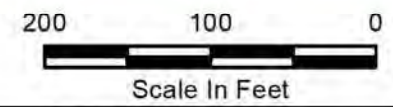


FIGURE 3 | Sheet 29 of 29

SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

OCTOBER 2021 SCALE: NOTED

TABLES

Table 1
Summary of In-Road Hudson Soil Data
Sudbury to Hudson Transmission Project
Hudson, Massachusetts

Sample Location	RCS-1	RCS-2	Similar Soils for RCS-1	Concentrations in "Natural Soil" at RCS-1 Receiving Location	MA Lined Landfill	MA Unlined Landfill	Units	S82	S83	MP9	S81	MP11	MP3	MP4	MP6	MP10	MP1	MP-2	MP13	MP14	MP25	MP21	MP-12	MP-5	MP-7	MP-8	MP-16								
								06/05/2018	6/5/2018	06/06/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018
								18F0316-08	18F0316-15	18F0619-04	18F0619-06	18F0619-01	18F0619-10	18F0619-05	18F0619-03	18F0619-09	18F1479-04	18H0015-01	18H0260-01	18H0260-03	18H0260-05	18H0260-04	18H0744-02	18H0744-01	18H1308-02	18H1308-01	18H1308-03								
SM 2540G							% Wt	93.9	82.7	87.8	94.4	82.3	96.7	95.2	89.5	88.3	88.4	90.5	96.1	91.9	94.3	95.4	96.5	93.8	93	90.3	92.5								
% SOLIDS	NE	NE	NE	NE	NE	NE																													
SM21-22 2510B Modified																																			
SPECIFIC CONDUCTANCE	NE	NE	NE	NE	8000	NE	µmhos/cm	21	13	13	12	21	9.9	12	32	16	4	20	21	17	8.4	8.3	37	23	31	24	6.8								
SW-846 1030																																			
IGNITABILITY	NE	NE	NE	NE	NE	NE	present/absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent								
SW-846 6010D																																			
ANTIMONY	20	30	10	1	NE	NE	mg/Kg	1.8	2.1	2	1.7	2.1	1.8	1.7	1.9	1.9	1.9	1.8	1.7	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8								
ARSENIC	20	20	20	20	40	40	mg/Kg	7.2	5	13	8.3	8.2	14	3.9	17	7.1	3	15	8.6	8.2	5.3	8.4	16	5.1	7.8	11	9.7								
BARIUM	1000	3000	375	50	NE	NE	mg/Kg	18	22	40	22	32	21	31	120	23	140	54	28	19	15	30	18	28	69	18	33								
BERYLLIUM	90	200	4	0.4	NE	NE	mg/Kg	0.22	0.25	0.3	0.22	0.36	0.27	0.21	0.34	0.19	0.19	0.18	0.17	0.18	0.18	0.17	0.17	0.18	0.18	0.18	0.18								
CADMIUM	70	100	20	2	80	30	mg/Kg	0.18	0.21	0.23	0.17	0.21	0.29	0.17	0.28	0.19	0.3	0.55	0.31	0.31	0.19	0.34	0.5	0.21	0.33	0.4	0.36								
CHROMIUM	100	200	100	30	1000	1000	mg/Kg	9	12	18	14	18	12	17	40	8.8	39	22	15	12	8.4	14	13	12	25	12	20								
LEAD	200	600	200	100	2000	1000	mg/Kg	3.2	6.5	13	5.1	6.3	8.6	8.4	12	3.5	11	36	8	16	33	38	6.5	36	7.8	7.1	12								
NICKEL	600	1000	150	20	NE	NE	mg/Kg	5.8	10	11	11	13	11	12	5	5.8	9	14	12	11	7	13	11	8.7	17	8.6	14								
SELENIUM	400	700	5	0.5	NE	NE	mg/Kg	3.5	4.1	3.9	3.4	4.2	3.5	3.3	3.7	3.8	3.7	3.6	3.5	3.6	3.5	3.5	3.4	3.5	3.6	3.6	3.6								
SILVER	100	200	6	0.6	NE	NE	mg/Kg	0.35	0.41	0.56	0.34	0.42	0.35	0.43	1.3	0.38	0.37	0.36	0.35	0.36	0.35	0.35	0.34	0.35	0.36	0.36	0.36								
THALLIUM	8	60	6	0.6	NE	NE	mg/Kg	1.8	2.1	2	1.7	2.1	1.8	1.7	1.9	1.9	1.9	1.8	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8								
VANADIUM	400	700	225	30	NE	NE	mg/Kg	9.4	13	20	12	16	10	17	57	9.3	61	26	15	12	9.6	18	13	13	28	13	21								
ZINC	1000	3000	500	100	NE	NE	mg/Kg	10	17	24	19	22	18	25	29	11	38	33	27	31	28	31	18	25	35	29									
SW-846 7471B																																			
MERCURY	20	30	3	0.3	10	10	mg/Kg	0.026	0.029	0.029	0.027	0.03	0.027	0.026	0.028	0.029	0.028	0.026	0.025	0.026	0.026	0.026	0.025	0.08	0.028	0.029	0.028								
SW-846 8081B																																			
ALACHOR	NE	NE	NE	NE	NE	NE	mg/Kg	0.021	0.023	0.23	0.021	0.24	0.21	0.21	0.022	0.023	0.023	0.44	0.21	0.022	0.21	0.42	0.02	0.21	0.2	0.022	0.22								
ALDRIN	0.08	0.5	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
ALPHA-BHC	50	500	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
BETA-BHC	10	100	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
DELTA-BHC	10	100	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
GAMMA-BHC (LINDANE)	0.003	0.5	NE	NE	NE	NE	mg/Kg	0.0021	0.0023	0.023	0.0021	0.024	0.021	0.021	0.0022	0.0023	0.0023	0.044	0.021	0.0022	0.021	0.042	0.002	0.021	0.02	0.0022	0.022								
CHLORDANE	5	30	NE	NE	NE	NE	mg/Kg	0.021	0.023	0.23	0.021	0.24	0.21	0.21	0.022	0.023	0.023	0.44	0.21	0.022	0.21	0.42	0.02	0.021	0.2	0.022	0.22								
4,4'-DDD	8	40	NE	NE	NE	NE	mg/Kg	0.0042	0.0046	0.046	0.0042	0.049	0.041	0.042	0.0045	0.0045	0.0045	0.088	0.042	0.0044	0.042	0.084	0.0039	0.042	0.041	0.0044	0.043								
4,4'-DDE	6	30	NE	NE	NE	NE	mg/Kg	0.0042	0.0046	0.046	0.0042	0.049	0.041	0.042	0.0045	0.0045	0.0045	0.088	0.042	0.0044	0.042	0.084	0.0039	0.042	0.041	0.0044	0.043								
4,4'-DDT	6	30	NE	NE	NE	NE	mg/Kg	0.0042	0.0046	0.046	0.008	0.049	0.041	0.042	0.0045	0.0045	0.0045	0.088	0.042	0.0044	0.042	0.084	0.0039	0.042	0.041	0.0044	0.043								
DIELDRIN	0.08	0.5	NE	NE	NE	NE	mg/Kg	0.0042	0.0046	0.046	0.0042	0.049	0.041	0.042	0.0045	0.0045	0.0045	0.088	0.042	0.0044	0.042	0.084	0.0039	0.042	0.041	0.0044	0.043								
ENDOSULFAN I	0.5	1	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
ENDOSULFAN II	0.5	1	NE	NE	NE	NE	mg/Kg	0.0084	0.0091	0.091	0.0085	0.097	0.083	0.084	0.0089	0.0091	0.0091	0.18	0.083	0.0087	0.085	0.17	0.0079	0.084	0.081	0.0089	0.087								
ENDOSULFAN SULFATE	~	~	NE	NE	NE	NE	mg/Kg	0.0084	0.0091	0.091	0.0085	0.097	0.083	0.084	0.0089	0.0091	0.0091	0.18	0.083	0.0087	0.085	0.17	0.0079	0.084	0.081	0.0089	0.087								
ENDRIN	10	20	NE	NE	NE	NE	mg/Kg	0.0084	0.0091	0.091	0.0085	0.097	0.083	0.084	0.0089	0.0091	0.0091	0.18	0.083	0.0087	0.085	0.17	0.0079	0.084	0.081	0.0089	0.087								
ENDRIN ALDEHYDE	10	100	NE	NE	NE	NE	mg/Kg	0.0084	0.0091	0.091	0.0085	0.097	0.083	0.084	0.0089	0.0091	0.0091	0.18	0.083	0.0087	0.085	0.17	0.0079	0.084	0.081	0.0089	0.087								
ENDRIN KETONE	~	~	NE	NE	NE	NE	mg/Kg	0.0084	0.0091	0.091	0.0085	0.097	0.083	0.084	0.0089	0.0091	0.0091	0.18	0.083	0.0087	0.085	0.17	0.0079	0.084	0.081	0.0089	0.087								
HEPTACHLOR	0.3	2	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
HEPTACHLOR EPOXIDE	0.1	0.9	NE	NE	NE	NE	mg/Kg	0.0053	0.0057	0.057	0.0053	0.061	0.052	0.053	0.0056	0.0057	0.0057	0.11	0.052	0.0054	0.053	0.1	0.0049	0.053	0.051	0.0055	0.054								
HEXACHLOROBENZENE	0.7	0.8	NE	NE	NE	NE	mg/Kg	0.0063	0.0068	0.068	0.0064	0.073	0.062	0.063	0.0067	0.0068	0.0068	0.13	0.062	0.0065	0.064	0.13	0.0059	0.064	0.061	0.0066	0.065								
METHOXYCHLOR	200	400	NE	NE	NE	NE																													

Table 1
 Summary of In-Road Hudson Soil Data
 Sudbury to Hudson Transmission Project
 Hudson, Massachusetts

Sample Location	RCS-1	RCS-2	Similar Soils for RCS-1	Concentrations in "Natural Soil" at RCS-1 Receiving Location	MA Lined Landfill	MA Unlined Landfill	Units	S2	S3	MP9	S81	MP11	MP3	MP4	MP6	MP10	MP1	MP-2	MP13	MP14	MP25	MP21	MP-12	MP-5	MP-7	MP-8	MP-16																						
								06/05/2018	6/5/2018	06/06/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018														
								18F0316-08	18F0316-15	18F0619-04	18F0619-06	18F0619-01	18F0619-10	18F0619-05	18F0619-03	18F0619-09	18F1479-04	18H0015-01	18H0260-01	18H0260-03	18H0260-05	18H0260-04	18H0744-02	18H0744-01	18H1308-02	18H1308-01	18H1308-03																						
SW-846 8260C								0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																						
ACETONE	6	50	NE	NE	NE	NE	mg/Kg	0.081	U	0.079	U	0.045	U	0.082	U	0.1	U	0.047	U	0.086	U	0.078	U	0.077	U	0.074	U	0.081	U	0.093	U	0.067	U	0.081	U	0.067	U	0.078	U	0.072	U	0.068	U	0.055	U	0.059	U		
TERT-AMYL METHYL ETHER	NE	NE	NE	NE	NE	NE	mg/Kg	0.00081	U	0.00079	U	0.00045	U	0.00082	U	0.001	U	0.00047	U	0.00086	U	0.00078	U	0.00077	U	0.00074	U	0.00081	U	0.00093	U	0.00067	U	0.00081	U	0.00067	U	0.00078	U	0.00072	U	0.00068	U	0.00055	U	0.00059	U		
BENZENE	2	200	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
BROMOBENZENE	100	1000	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
BROMOCHLOROMETHANE	NE	NE	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
BROMODICHLOROMETHANE	0.1	0.1	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
BROMOFORM	0.1	1	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
BROMOMETHANE	0.5	0.5	NE	NE	NE	NE	mg/Kg	0.0081	U	0.0079	U	0.0045	U	0.0082	U	0.01	U	0.0047	U	0.0086	U	0.0078	U	0.0077	U	0.0074	U	0.0081	U	0.0093	U	0.0067	U	0.0081	U	0.0067	U	0.0078	U	0.0072	U	0.0068	U	0.0055	U	0.0059	U		
2-BUTANONE (MEK)	4	50	NE	NE	NE	NE	mg/Kg	0.032	U	0.032	U	0.018	U	0.033	U	0.04	U	0.019	U	0.034	U	0.031	U	0.031	U	0.03	U	0.033	U	0.037	U	0.027	U	0.032	U	0.027	U	0.031	U	0.029	U	0.027	U	0.022	U	0.024	U		
N-BUTYLBENZENE	NE	NE	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
SEC-BUTYLBENZENE	NE	NE	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
TERT-BUTYLBENZENE	100	1000	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
TERT-BUTYLETHYL ETHER	NE	NE	NE	NE	NE	NE	mg/Kg	0.00081	U	0.00079	U	0.00045	U	0.00082	U	0.001	U	0.00047	U	0.00086	U	0.00078	U	0.00077	U	0.00074	U	0.00081	U	0.00093	U	0.00067	U	0.00081	U	0.00067	U	0.00078	U	0.00072	U	0.00068	U	0.00055	U	0.00059	U		
CARBON DISULFIDE	100	1000	NE	NE	NE	NE	mg/Kg	0.0048	U	0.0047	U	0.0027	U	0.0049	U	0.006	U	0.0028	U	0.0052	U	0.0047	U	0.0046	U	0.0044	U	0.0049	U	0.0056	U	0.004	U	0.0048	U	0.004	U	0.0047	U	0.0043	U	0.0041	U	0.0033	U	0.0036	U		
CARBON TETRACHLORIDE	5	5	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.0018	U	0.0033	U	0.002	U	0.0019	U	0.0034	U	0.0031	U	0.0031	U	0.003	U	0.0016	U	0.0019	U	0.0013	U	0.0032	U	0.0027	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U		
CHLOROBENZENE	1	3	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
CHLORODIBROMOMETHANE	0.005	0.03	NE	NE	NE	NE	mg/Kg	0.00081	U	0.00079	U	0.00045	U	0.00082	U	0.001	U	0.00047	U	0.00086	U	0.00078	U	0.00077	U	0.00074	U	0.00081	U	0.00093	U	0.00067	U	0.00081	U	0.00067	U	0.00078	U	0.00072	U	0.00068	U	0.00055	U	0.00059	U		
CHLOROETHANE	100	1000	NE	NE	NE	NE	mg/Kg	0.0081	U	0.0079	U	0.0045	U	0.0082	U	0.01	U	0.0047	U	0.0086	U	0.0078	U	0.0077	U	0.0074	U	0.0081	U	0.0093	U	0.0067	U	0.0081	U	0.0067	U	0.0078	U	0.0072	U	0.0068	U	0.0055	U	0.0059	U		
CHLOROFORM	0.2	0.2	NE	NE	NE	NE	mg/Kg	0.0032	U	0.0032	U	0.0018	U	0.0033	U	0.004	U	0.0019	U	0.0034	U	0.0031	U	0.0031	U	0.003	U	0.0033	U	0.0037	U	0.0027	U	0.0032	U	0.0027	U	0.0031	U	0.029	U	0.027	U	0.022	U	0.024	U		
CHLOROMETHANE	100	1000	NE	NE	NE	NE	mg/Kg	0.0081	U	0.0079	U	0.0045	U	0.0082	U	0.01	U	0.0047	U	0.0086	U	0.0078	U	0.0077	U	0.0074	U	0.0081	U	0.0093	U	0.0067	U	0.0081	U	0.0067	U	0.0078	U	0.0072	U	0.0068	U	0.0055	U	0.0059	U		
2-CHLOROTOLUENE	100	1000	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
4-CHLOROTOLUENE	100	1000	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
1,2-DIBROMO-3-CHLOROPROPANE	10	100	NE	NE	NE	NE	mg/Kg	0.0016	U	0.0016	U	0.00089	U	0.0016	U	0.002	U	0.00094	U	0.0017	U	0.0016	U	0.0015	U	0.0015	U	0.0016	U	0.0019	U	0.0013	U	0.0016	U	0.0016	U	0.0013	U	0.0016	U	0.0014	U	0.0014	U	0.0011	U	0.0012	U
1,2-DIBROMOETHANE (EDB)	0.1	0.1	NE	NE	NE	NE	mg/Kg	0.00081	U	0.00079	U	0.00045	U	0.00082	U	0.001	U	0.00047	U	0.00086	U	0.00078	U	0.00077	U	0.00074	U	0.00081	U																				

Table 2
Summary of MBTA ROW Hudson Soil
Sudbury to Hudson Transmission Project
Hudson, Massachusetts

LOCATION	RCS-1	RCS-2	Similar Soils for RCS-1	Concentrations in "Natural Soil" at RCS-1 Receiving Location	MA Lined Landfill	MA Unlined Landfill	Units	MP24	SB/MW-24	SB16	SB17	SB18	SB19	SB2	SB3	SB43	SB45	SB47	MP10	MP11	MP20	MP22	MP23	MP3	MP4	MP6	MP9	SB1	MP15	SB/MW-5	SB14	MP1	MP17	MP19	SB15	SB44	SB20	SB/MW-21	SB46	
								06/04/2018	06/05/2018	06/01/2018	06/04/2018	06/01/2018	05/31/2018	06/05/2018	06/05/2018	06/04/2018	06/01/2018	05/31/2018	06/05/2018	06/05/2018	06/04/2018	06/01/2018	05/31/2018	06/08/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/07/2018	06/06/2018	06/07/2018	6/15/2018	6/21/2018	6/25/2018	6/26/2018	6/27/2018	6/27/2018	6/27/2018
SAMPLING DATE																																								
LAB SAMPLE ID																																								
PID READING (ppmV)																																								
2-METHYLNAPHTHALENE	0.7	80	0.7	NE	NE	NE	mg/Kg	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.2 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U	0.18 U	0.2 U	0.17 U	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U	
O-CRESOL	500	5000	NE	0.5	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
M/P-CRESOL	500	5000	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
NAPHTHALENE	4	20	4	NE	NE	NE	mg/Kg	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.2 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U	0.18 U	0.2 U	0.17 U	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U
NITROBENZENE	500	5000	NE	0.5	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
2-NITROPHENOL	100	1000	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
4-NITROPHENOL	100	1000	NE	NE	NE	NE	mg/Kg	0.71 U	0.73 U	0.71 U	0.7 U	0.71 U	0.68 U	0.7 U	0.78 U	0.73 U	0.71 U	0.68 U	0.75 U	0.8 U	0.75 U	0.7 U	0.76 U	0.67 U	0.69 U	0.73 U	0.74 U	0.7 U	0.69 U	0.68 U	0.72 U	0.75 U	0.7 U	0.71 U	0.68 U	0.71 U	0.68 U	0.72 U	0.7 U	0.7 U
PENTACHLOROPHENOL	3	10	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
PHENANTHRENE	10	1000	NE	NE	NE	NE	mg/Kg	0.18 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.2 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U	0.18 U	0.2 U	0.17 U	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U
PHENOL	1	20	NE	3	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
PYRENE	1000	3000	40	NE	NE	NE	mg/Kg	0.18 U	0.19 U	0.18 U	0.21 U	0.18 U	0.18 U	0.2 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U	0.18 U	0.2 U	0.17 U	0.18 U	0.19 U	0.19 U	0.18 U	0.18 U	0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.18 U	0.18 U
PYRIDINE	500	5000	NE	4	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
1,2,4-TRICHLOROBENZENE	2	6	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
2,4,5-TRICHLOROPHENOL	4	600	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
2,4,6-TRICHLOROPHENOL	0.7	20	NE	NE	NE	NE	mg/Kg	0.37 U	0.38 U	0.37 U	0.36 U	0.36 U	0.35 U	0.36 U	0.4 U	0.38 U	0.37 U	0.35 U	0.38 U	0.41 U	0.39 U	0.36 U	0.39 U	0.35 U	0.36 U	0.38 U	0.38 U	0.36 U	0.36 U	0.35 U	0.37 U	0.38 U	0.36 U	0.37 U	0.35 U	0.37 U	0.35 U	0.37 U	0.36 U	0.36 U
Cyanide in Waters and Extracts																																								
REACTIVE CYANIDE	NE	NE	NE	NE	NE	NE	mg/Kg	4 U	4 U	3.9 U	3.9 U	3.9 U	4 U	3.9 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	4 U	4 U	4 U	4 U	3.9 U	4 U	4 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	4 U	3.9 U	
Acid-Soluble and Acid-Insoluble Sulfides																																								
REACTIVE SULFIDE	NE	NE	NE	NE	NE	NE	mg/Kg	20 U	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	20 U	20 U	20 U	19 U	20 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	19 U
PH	NE	NE	NE	NE	NE	NE	pH Units	5.2	5.9	5.3	5.2	5.6	4.7	6.9	5.7	5.3	5.9	5.8	6.1	6.5	6.1	5.8	5.7	5.8	7.8	5.4	6	5.4	6	5.9	7	5.4	8.7	6.8	7.6	8.4	5.1	6.7	7.4	

NOTES:
 Bolded, shaded, and underlined results meet or exceed regulatory threshold
 Bolded results are a laboratory detection limit that exceed a regulatory threshold
 RCS-x = MCP Reportable Concentrations for Soil Category x
 U = Not detected above the laboratory reporting limits shown to the left of the "U"
 NE = Standard not established
 mg/kg = Milligrams per kilogram, also known as parts per million

SOIL DISPOSAL CLASSIFICATION CATEGORIES
Type A Soil: Reuse at Sand and Gravel facility: Soils which do not contain oil or hazardous material (OHM) or contain OHM below levels consistent with "natural" soil per MassDEP's Similar Soils Provision Guidance (WSC-13-500) are not considered Remediation Waste; this includes soil that exhibits concentrations of TPH less than or equal to 25 parts per million (ppm). These "natural" soils may be reused at specific beneficial reuse locations on a case by case basis under the discretion of Eversource and may be reused at an active sand and gravel processing facility that holds a Site Assignment Authorization with approval from the LSP-of-Record. Facilities that are reclaiming former sand and gravel pits must have a MassDEP approved ACO in place in accordance with MassDEP Interim Policy COMM-15-01: Re-
Type B-1 Soil: <RCS-1 Beneficial Reuse: Soil containing OHM concentrations below MCP RCS-1 criteria can be used as fill material at off-site industrial/commercial locations provided that pre-existing OHM concentrations at the fill location are equal to or higher than those that exist in the construction generated soil and are not located within the Utility Related Abatement Measure (URAM). Facilities must have a MassDEP approved Administrative Consent Order (ACO) in place in accordance with MassDEP Interim Policy COMM-15-01.
Type C-1 Soil: Massachusetts Unlined Landfills: Soil that contains OHM concentrations above MCP RCS-1 levels but below the criteria for Massachusetts Unlined landfills per MassDEP Policy COMM-97-001.

Table 4
 Summary of Hudson Groundwater Data
 Sudbury to Hudson Transmission Project
 Hudson, Massachusetts

LOCATION	RCGW-1	RCGW-2	Units	SB/MW-21	SB/MW-24	SB/MW-5
SAMPLING DATE				08/03/2018	08/02/2018	08/02/2018
LAB SAMPLE ID				18H0264-01	18H0264-02	18H0264-03
RCRA 8 METALS						
ARSENIC	10	900	µg/L	9	2 U	2 U
BARIUM	2000	50000	µg/L	53	50 U	50 U
CADMIUM	4	4	µg/L	2.5 U	2.5 U	2.5 U
CHROMIUM	100	300	µg/L	5 U	5 U	5 U
LEAD	10	10	µg/L	5 U	5 U	5 U
SELENIUM	50	100	µg/L	25 U	25 U	25 U
SILVER	7	7	µg/L	2.5 U	2.5 U	2.5 U
MERCURY	0.002	0.02	mg/L	0.0001 U	0.0001 U	0.0001 U
TOTAL PETROLEUM HYDROCARBONS						
DIESEL RANGE ORGANICS	~	~	mg/L	0.2 U	0.2 U	0.2 U
POLYCHLORINATED BIPHENYLS						
PCB 1016	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1221	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1232	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1242	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1248	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1254	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1260	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1262	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
PCB 1268	0.5	5	µg/L	0.22 U	0.2 U	0.2 U
VOLATILE ORGANIC COMPOUNDS						
ACETONE	6300	50000	µg/L	10 U	11	10 U
TERT-AMYL METHYL ETHER	~	~	µg/L	0.5 U	0.5 U	0.5 U
BENZENE	5	1000	µg/L	1 U	1 U	1 U
BROMOBENZENE	1000	10000	µg/L	1 U	1 U	1 U
BROMOCHLOROMETHANE	~	~	µg/L	1 U	1 U	1 U
BROMODICHLOROMETHANE	3	6	µg/L	1 U	1 U	1 U
BROMOFORM	4	700	µg/L	2 U	2 U	2 U
BROMOMETHANE	7	7	µg/L	2 U	2 U	2 U
2-BUTANONE (MEK)	4000	50000	µg/L	10 U	10 U	10 U
N-BUTYLBENZENE	~	~	µg/L	1 U	1 U	1 U
SEC-BUTYLBENZENE	~	~	µg/L	1 U	1 U	1 U
TERT-BUTYLBENZENE	1000	10000	µg/L	1 U	1 U	1 U
TERT-BUTYLETHYL ETHER	~	~	µg/L	0.5 U	0.5 U	0.5 U
CARBON DISULFIDE	1000	10000	µg/L	5 U	5 U	5 U
CARBON TETRACHLORIDE	2	2	µg/L	1 U	1 U	1 U
CHLOROBENZENE	100	200	µg/L	1 U	1 U	1 U
CHLORODIBROMOMETHANE	2	20	µg/L	0.5 U	0.5 U	0.5 U
CHLOROETHANE	1000	10000	µg/L	2 U	2 U	2 U
CHLOROFORM	50	50	µg/L	2 U	2 U	2 U
CHLOROMETHANE	1000	10000	µg/L	2 U	2 U	2 U
2-CHLOROTOLUENE	1000	10000	µg/L	1 U	1 U	1 U
4-CHLOROTOLUENE	1000	10000	µg/L	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	100	1000	µg/L	2 U	2 U	2 U
1,2-DIBROMOETHANE (EDB)	0.02	2	µg/L	0.5 U	0.5 U	0.5 U
DIBROMOMETHANE	5000	50000	µg/L	1 U	1 U	1 U
1,2-DICHLOROBENZENE	600	2000	µg/L	1 U	1 U	1 U
1,3-DICHLOROBENZENE	100	6000	µg/L	1 U	1 U	1 U
1,4-DICHLOROBENZENE	5	60	µg/L	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	10000	100000	µg/L	2 U	2 U	2 U
1,1-DICHLOROETHANE	70	2000	µg/L	1 U	1 U	1 U
1,2-DICHLOROETHANE	5	5	µg/L	1 U	1 U	1 U
1,1-DICHLOROETHYLENE	7	80	µg/L	1 U	1 U	1 U
CIS-1,2-DICHLOROETHYLENE	20	20	µg/L	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHYLENE	80	80	µg/L	1 U	1 U	1 U
1,2-DICHLOROPROPANE	3	3	µg/L	1 U	1 U	1 U
1,3-DICHLOROPROPANE	5000	50000	µg/L	0.5 U	0.5 U	0.5 U
2,2-DICHLOROPROPANE	5	9	µg/L	1 U	1 U	1 U
1,1-DICHLOROPROPENE	0.5	5	µg/L	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.5	5	µg/L	0.4 U	0.4 U	0.4 U
TRANS-1,3-DICHLOROPROPENE	0.5	5	µg/L	0.4 U	0.4 U	0.4 U

Table 4
 Summary of Hudson Groundwater Data
 Sudbury to Hudson Transmission Project
 Hudson, Massachusetts

LOCATION	RCGW-1	RCGW-2	Units	SB/MW-21		SB/MW-24		SB/MW-5	
SAMPLING DATE				08/03/2018	08/02/2018	08/02/2018	08/02/2018		
LAB SAMPLE ID				18H0264-01	18H0264-02	18H0264-03			
DIETHYL ETHER	1000	10000	µg/L	2 U	2 U	2 U	2 U	2 U	
DIISOPROPYL ETHER	1000	10000	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,4-DIOXANE	0.3	6000	µg/L	50 U	50 U	50 U	50 U	50 U	
ETHYLBENZENE	700	5000	µg/L	1 U	1 U	1 U	1 U	1 U	
HEXACHLOROBUTADIENE	0.6	50	µg/L	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	
2-HEXANONE	1000	10000	µg/L	10 U	10 U	10 U	10 U	10 U	
ISOPROPYLBENZENE	10000	100000	µg/L	1 U	1 U	1 U	1 U	1 U	
P-ISOPROPYLTOLUENE	1000	10000	µg/L	1 U	1 U	1 U	1 U	1 U	
METHYL TERT-BUTYL ETHER (MTBE)	70	5000	µg/L	1 U	1 U	1 U	1 U	1 U	
METHYLENE CHLORIDE	5	2000	µg/L	5 U	5 U	5 U	5 U	5 U	
4-METHYL-2-PENTANONE (MIBK)	350	50000	µg/L	10 U	10 U	10 U	10 U	10 U	
NAPHTHALENE	140	700	µg/L	2 U	2 U	2 U	2 U	2 U	
N-PROPYLBENZENE	1000	10000	µg/L	1 U	1 U	1 U	1 U	1 U	
STYRENE	100	100	µg/L	1 U	1 U	1 U	1 U	1 U	
1,1,1,2-TETRACHLOROETHANE	5	10	µg/L	1 U	1 U	1 U	1 U	1 U	
1,1,2,2-TETRACHLOROETHANE	2	9	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
TETRACHLOROETHYLENE	5	50	µg/L	1 U	1 U	1 U	1 U	1 U	
TETRAHYDROFURAN	5000	50000	µg/L	2 U	2 U	2 U	2 U	2 U	
TOLUENE	1000	40000	µg/L	1 U	1 U	1 U	1 U	1 U	
1,2,3-TRICHLOROBENZENE	~	~	µg/L	2 U	2 U	2 U	2 U	2 U	
1,2,4-TRICHLOROBENZENE	70	200	µg/L	1 U	1 U	1 U	1 U	1 U	
1,1,1-TRICHLOROETHANE	200	4000	µg/L	1 U	1 U	1 U	1 U	1 U	
1,1,2-TRICHLOROETHANE	5	900	µg/L	1 U	1 U	1 U	1 U	1 U	
TRICHLOROETHYLENE	5	5	µg/L	1 U	1 U	1 U	1 U	1 U	
TRICHLOROFLUOROMETHANE	10000	100000	µg/L	2 U	2 U	2 U	2 U	2 U	
1,2,3-TRICHLOROPROPANE	1000	10000	µg/L	2 U	2 U	2 U	2 U	2 U	
1,2,4-TRIMETHYLBENZENE	10000	100000	µg/L	1 U	1 U	1 U	1 U	1 U	
1,3,5-TRIMETHYLBENZENE	100	1000	µg/L	1 U	1 U	1 U	1 U	1 U	
VINYL CHLORIDE	2	2	µg/L	2 U	2 U	2 U	2 U	2 U	
M/P-XYLENE	3000	3000	µg/L	2 U	2 U	2 U	2 U	2 U	
O-XYLENE	3000	3000	µg/L	1 U	1 U	1 U	1 U	1 U	

NOTES:
 Bolded, shaded, and underlined results meet or exceed regulatory threshold
 Bolded results are a laboratory detection limit that exceed a regulatory threshold
 RCGW-x = MCP Reportable Concentrations for Groundwater Category x
 U = Not detected above the laboratory reporting limits shown to the left of the "U"
 NE = Standard not established
 ug/L = micrograms per liter, also known as parts per billion

Table 5
Summary of Sudbury Groundwater Data
Sudbury to Hudson Transmission Project
Sudbury, Massachusetts

Sample Location	RCGW-1	RCGW-2	Units	MW33		MW35		MW42	
				12/05/2018		12/05/2018		12/05/2018	
				18L0240-01		18L0240-02		18L0240-03	
Labnumber									
SW-846 6020B									
ARSENIC	10	900	µg/L	0.4	U	0.4	U	4.4	
BARIUM	2000	50000	µg/L	16		18		87	
CADMIUM	4	4	µg/L	0.5	U	0.5	U	0.5	U
CHROMIUM	100	300	µg/L	1	U	1		1.7	
LEAD	10	10	µg/L	1	U	1	U	1	
SELENIUM	50	100	µg/L	5	U	5	U	5	U
SILVER	7	7	µg/L	0.5	U	0.5	U	0.5	U
SW-846 7470A									
MERCURY	0.002	0.02	mg/L	0.0001	U	0.0001	U	0.0001	U
SW-846 8082A									
PCB 1016	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1221	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1232	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1242	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1248	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1254	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1260	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1262	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
PCB 1268	0.5	5	µg/L	0.19	U	0.2	U	0.2	U
SW-846 8100 Modified									
TPH	0.2	5	mg/L	0.19	U	0.22	U	0.19	U
SW-846 8260C									
ACETONE	6300	50000	µg/L	10	U	10	U	10	U
TERT-AMYL METHYL ETHER	NE	NE	µg/L	0.5	U	0.5	U	0.5	U
BENZENE	5	1000	µg/L	1	U	1	U	1	U
BROMOBENZENE	1000	10000	µg/L	1	U	1	U	1	U
BROMOCHLOROMETHANE	NE	NE	µg/L	1	U	1	U	1	U
BROMODICHLOROMETHANE	3	6	µg/L	1	U	1	U	1	U
BROMOFORM	4	700	µg/L	2	U	2	U	2	U
BROMOMETHANE	7	7	µg/L	2	U	2	U	2	U
2-BUTANONE (MEK)	4000	50000	µg/L	10	U	10	U	10	U
N-BUTYLBENZENE	NE	NE	µg/L	1	U	1	U	1	U
SEC-BUTYLBENZENE	NE	NE	µg/L	1	U	1	U	1	U
TERT-BUTYLBENZENE	1000	10000	µg/L	1	U	1	U	1	U
TERT-BUTYLETHYL ETHER	NE	NE	µg/L	0.5	U	0.5	U	0.5	U
CARBON DISULFIDE	1000	10000	µg/L	5	U	5	U	5	U
CARBON TETRACHLORIDE	2	2	µg/L	1	U	1	U	1	U
CHLOROBENZENE	100	200	µg/L	1	U	1	U	1	U
CHLORODIBROMOMETHANE	2	20	µg/L	0.5	U	0.5	U	0.5	U
CHLOROETHANE	1000	10000	µg/L	2	U	2	U	2	U
CHLOROFORM	50	50	µg/L	2	U	2	U	2	U
CHLOROMETHANE	1000	10000	µg/L	2	U	2	U	2	U
2-CHLOROTOLUENE	1000	10000	µg/L	1	U	1	U	1	U
4-CHLOROTOLUENE	1000	10000	µg/L	1	U	1	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	100	1000	µg/L	2	U	2	U	2	U
1,2-DIBROMOETHANE (EDB)	0.02	2	µg/L	0.5	U	0.5	U	0.5	U
DIBROMOMETHANE	5000	50000	µg/L	1	U	1	U	1	U
1,2-DICHLOROBENZENE	600	2000	µg/L	1	U	1	U	1	U
1,3-DICHLOROBENZENE	100	6000	µg/L	1	U	1	U	1	U
1,4-DICHLOROBENZENE	5	60	µg/L	1	U	1	U	1	U
DICHLORODIFLUOROMETHANE	10000	100000	µg/L	2	U	2	U	2	U
1,1-DICHLOROETHANE	70	2000	µg/L	1	U	1	U	1	U
1,2-DICHLOROETHANE	5	5	µg/L	1	U	1	U	1	U
1,1-DICHLOROETHYLENE	7	80	µg/L	1	U	1	U	1	U
CIS-1,2-DICHLOROETHYLENE	20	20	µg/L	1	U	1	U	1	U
TRANS-1,2-DICHLOROETHYLENE	80	80	µg/L	1	U	1	U	1	U
1,2-DICHLOROPROPANE	3	3	µg/L	1	U	1	U	1	U
1,3-DICHLOROPROPANE	5000	50000	µg/L	0.5	U	0.5	U	0.5	U
2,2-DICHLOROPROPANE	5	9	µg/L	1	U	1	U	1	U
1,1-DICHLOROPROPENE	0.5	5	µg/L	0.5	U	0.5	U	0.5	U
CIS-1,3-DICHLOROPROPENE	0.5	5	µg/L	0.4	U	0.4	U	0.4	U
TRANS-1,3-DICHLOROPROPENE	0.5	5	µg/L	0.4	U	0.4	U	0.4	U
DIETHYL ETHER	1000	10000	µg/L	2	U	2	U	2	U
DIISOPROPYL ETHER	1000	10000	µg/L	0.5	U	0.5	U	0.5	U

Table 5
 Summary of Sudbury Groundwater Data
 Sudbury to Hudson Transmission Project
 Sudbury, Massachusetts

Sample Location	RCGW-1	RCGW-2	Units	MW33		MW35		MW42	
				12/05/2018		12/05/2018		12/05/2018	
				18L0240-01		18L0240-02		18L0240-03	
Labnumber									
1,4-DIOXANE	0.3	6000	µg/L	50	U	50	U	50	U
ETHYLBENZENE	700	5000	µg/L	1	U	1	U	1	U
HEXACHLOROBUTADIENE	0.6	50	µg/L	0.6	U	0.6	U	0.6	U
2-HEXANONE	1000	10000	µg/L	10	U	10	U	10	U
ISOPROPYLBENZENE	10000	100000	µg/L	1	U	1	U	1	U
P-ISOPROPYLTOLUENE	1000	10000	µg/L	1	U	1	U	1	U
METHYL TERT-BUTYL ETHER (MTBE)	70	5000	µg/L	1	U	1	U	1	U
METHYLENE CHLORIDE	5	2000	µg/L	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	350	50000	µg/L	10	U	10	U	10	U
NAPHTHALENE	140	700	µg/L	2	U	2	U	2	U
N-PROPYLBENZENE	1000	10000	µg/L	1	U	1	U	1	U
STYRENE	100	100	µg/L	1	U	1	U	1	U
1,1,1,2-TETRACHLOROETHANE	5	10	µg/L	1	U	1	U	1	U
1,1,2,2-TETRACHLOROETHANE	2	9	µg/L	0.5	U	0.5	U	0.5	U
TETRACHLOROETHYLENE	5	50	µg/L	1	U	1	U	1	U
TETRAHYDROFURAN	5000	50000	µg/L	2	U	2	U	2	U
TOLUENE	1000	40000	µg/L	1	U	1	U	1	U
1,2,3-TRICHLOROBENZENE	NE	NE	µg/L	2	U	2	U	2	U
1,2,4-TRICHLOROBENZENE	70	200	µg/L	1	U	1	U	1	U
1,1,1-TRICHLOROETHANE	200	4000	µg/L	1	U	1	U	1	U
1,1,2-TRICHLOROETHANE	5	900	µg/L	1	U	1	U	1	U
TRICHLOROETHYLENE	5	5	µg/L	1	U	1	U	1	U
TRICHLOROFLUOROMETHANE	10000	100000	µg/L	2	U	2	U	2	U
1,2,3-TRICHLOROPROPANE	1000	10000	µg/L	2	U	2	U	2	U
1,2,4-TRIMETHYLBENZENE	10000	100000	µg/L	1	U	1	U	1	U
1,3,5-TRIMETHYLBENZENE	100	1000	µg/L	1	U	1	U	1	U
VINYL CHLORIDE	2	2	µg/L	2	U	2	U	2	U
M/P-XYLENE	3000	3000	µg/L	2	U	2	U	2	U
O-XYLENE	3000	3000	µg/L	1	U	1	U	1	U

NOTES:

Bolded, shaded, and underlined results meet or exceed regulatory threshold

Bolded results are a laboratory detection limit that exceed a regulatory threshold

RCGW-x = MCP Reportable Concentrations for Groundwater Category x

U = Not detected above the laboratory reporting limits shown to the left of the "U"

NE = Standard not established

ug/L = micrograms per liter, also known as parts per billion

APPENDIX A

Orders of Conditions

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 MassDEP File #:190-0647
 eDEP Transaction #:1218293
 City/Town:HUDSON

A. General Information

1. Conservation Commission HUDSON
2. Issuance a. OOC b. Amended OOC
3. Applicant Details
 a. First Name N/A b. Last Name N/A
 c. Organization NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY AND DEPT OF CONSERVATION AND RECREATION
 d. Mailing Address SEE ATTACHED
 e. City/Town f. State MA g. Zip Code
4. Property Owner
 a. First Name N/A b. Last Name
 c. Organization MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
 d. Mailing Address 10 PARK PLAZA
 e. City/Town BOSTON f. State MA g. Zip Code 02116
5. Project Location
 a. Street Address N/A MBTA ROW/CENTRAL MASS LINE RAILROAD
 b. City/Town HUDSON c. Zip Code 01749
 d. Assessors Map/Plat# 16-23 e. Parcel/Lot# MULTIPLE
 f. Latitude 42.39629N g. Longitude 71.52249W
6. Property recorded at the Registry of Deed for:
 a. County SOUTHERN MIDDLESEX b. Certificate c. Book 13156 d. Page 34
7. Dates
 a. Date NOI Filed : 1/2/2020 b. Date Public Hearing Closed: 8/6/2020 c. Date Of Issuance: 8/24/2020
8. Final Approved Plans and Other Documents
 a. Plan Title: SEE ATTACHED b. Plan Prepared by: c. Plan Signed/Stamped by: d. Revised Final Date: e. Scale:

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act
 Following the review of the the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act.

Check all that apply:

a. <input checked="" type="checkbox"/> Public Water Supply	b. <input checked="" type="checkbox"/> Land Containing Shellfish	c. <input checked="" type="checkbox"/> Prevention of Pollution
d. <input checked="" type="checkbox"/> Private Water Supply	e. <input checked="" type="checkbox"/> Fisheries	f. <input checked="" type="checkbox"/> Protection of Wildlife Habitat
g. <input checked="" type="checkbox"/> Ground Water Supply	h. <input checked="" type="checkbox"/> Storm Damage Prevention	i. <input checked="" type="checkbox"/> Flood Control

2. Commission hereby finds the project, as proposed, is:

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 MassDEP File #:190-0647
 eDEP Transaction #:1218293
 City/Town:HUDSON

Approved subject to:

a. The following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

Denied because:

b. The proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**

c. The information submitted by the applicant is not sufficient to describe the site, the work or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310CMR10.02(1)(a).

a. linear feet

Inland Resource Area Impacts:(For Approvals Only):

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input type="checkbox"/> Bank	<u> </u> a. linear feet	<u> </u> b. linear feet	<u> </u> c. linear feet	<u> </u> d. linear feet
5. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	1936 <u> </u> a. square feet	<u> </u> b. square feet	1936 <u> </u> c. square feet	<u> </u> d. square feet
6. <input type="checkbox"/> Land under Waterbodies and Waterways	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
	<u> </u> e. c/y dredged	<u> </u> f. c/y dredged		
7. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	16400 <u> </u> a. square feet	<u> </u> b. square feet	11208 <u> </u> c. square feet	<u> </u> d. square feet
Cubic Feet Flood Storage	0 <u> </u> e. cubic feet	<u> </u> f. cubic feet	435.5 <u> </u> g. cubic feet	<u> </u> h. cubic feet
8. <input checked="" type="checkbox"/> Isolated Land Subject to Flooding	760 <u> </u> a. square feet	<u> </u> b. square feet		
Cubic Feet Flood Storage	0 <u> </u> c. cubic feet	<u> </u> d. cubic feet	99.07 <u> </u> e. cubic feet	<u> </u> f. cubic feet
9. <input checked="" type="checkbox"/> Riverfront Area	<u> </u> 64790			

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	a. total sq. feet	b. total sq. feet		
Sq ft within 100 ft	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	c. square feet	d. square feet	e. square feet	f. square feet
Sq ft between 100-200 ft	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	g. square feet	h. square feet	i. square feet	j. square feet

Coastal Resource Area Impacts:

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
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- 10. Designated Port Areas Indicate size under Land Under the Ocean, below
- 11. Land Under the Ocean
 - a. square feet b. square feet
 - c. c/y dredged d. c/y dredged
- 12. Barrier Beaches Indicate size under Coastal Beaches and/or Coastal Dunes below
- 13. Coastal Beaches
 - a. square feet b. square feet c. c/y nourishment d. c/y nourishment
- 14. Coastal Dunes
 - a. square feet b. square feet c. c/y nourishment d. c/y nourishment
- 15. Coastal Banks
 - a. linear feet b. linear feet
- 16. Rocky Intertidal Shores
 - a. square feet b. square feet
- 17. Salt Marshes
 - a. square feet b. square feet c. square feet d. square feet
- 18. Land Under Salt Ponds
 - a. square feet b. square feet
 - c. c/y dredged d. c/y dredged
- 19. Land Containing Shellfish
 - a. square feet b. square feet c. square feet d. square feet
- 20. Fish Runs Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above
 - c. c/y dredged d. c/y dredged
- 21. Land Subject to Coastal Storm Flowage
 - a. square feet b. square feet

22. Restoration/Enhancement (For Approvals Only)

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If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c & d or B.17.c & d above, please entered the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

23.

Streams Crossing(s)

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not exceed the issuance date of the original Final Order of Conditions.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work..
10. A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

" Massachusetts Department of Environmental Protection"

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[or "MassDEP"]
File Number : "190-0647"

11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before Mass DEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. The work associated with this Order(the "Project") is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to Stormwater Standards, then the project is subject to the following conditions:
 - a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Construction General Permit as required by Stormwater Standard 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
 - b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per

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- the requirements of Stormwater Standard 10; *iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.
- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
 - d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Multi-Sector General Permit.
 - e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
 - f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.
 - g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
 - h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
 - i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
 - j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
 - k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as

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.....
defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.

- 1) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions:

SEE ATTACHED

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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No

2. The Conservation Commission hereby (check one that applies):

a. DENIES the proposed work which cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw specifically:

1. Municipal Ordinance or Bylaw _____

2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order or Conditions is issued. Which are necessary to comply with a municipal ordinance or bylaw:

b. APPROVES the proposed work, subject to the following additional conditions.

1. Municipal Ordinance or Bylaw _____

2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows:



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E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

8/24/2020
 1. Date of Issuance

Please indicate the number of members who will sign this form.

5

This Order must be signed by a majority of the Conservation Commission.

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

By vote on April 2, 2020 the individuals listed below have authorized the Conservation Agent to sign on their behalf pursuant to the signature authorization recorded with the Middlesex South Registry of Deeds Book 74456 Page 40. They also intend for the typed names below to serve as their electronic signature for any entity (MassDEP) that accepts electronic signatures.

Signatures:

James Martin

David Mercer

Debbi Edelstein

Emilie Wilder

Brandon Parker

by hand delivery on

by certified mail, return receipt requested, on

8/24/2020

Date

Date

James Martin
8/24/2020



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F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

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(M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

HUDSON

Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

HUDSON

Conservation Commission

Please be advised that the Order of Conditions for the Project at:

N/A MBTA ROW/CENTRAL MASS LINE RAILROAD

Project Location

190-0647

MassDEP File Number

Has been recorded at the Registry of Deeds of:

County

Book

Page

for:

Property Owner N/A

and has been noted in the chain of title of the affected property in:

Book

Page

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

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Signature of Applicant

Rev. 4/1/2010

**MBTA ROW/Central Mass Line Railroad
MassDEP File #190-0647
Applicants and Property Owners**

Applicants:

Denise Bartone
NSTAR Electric Company d/b/a Eversource Energy
247 Station Drive, SE270
Westwood MA 02090

Priscilla Geigis
Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston MA 02114

Property Owners:

Massachusetts Bay Transit Authority
10 Park Plaza
Boston MA 02116

Town of Hudson
78 Main Street
Hudson MA 01749

Special Conditions Under Massachusetts Wetlands Protection Act
MBTA ROW/Central Mass Line Railroad
MassDEP File #190-0647

Findings of Fact

Existing Conditions

The Project extends from Sudbury, through small portions of Stow and Marlborough, and into Hudson. The site within Hudson is 4.7 miles in length, of which 3.3 miles is along the existing inactive MBTA ROW from the Hudson/Sudbury municipal border to Wilkins Street. Crossing Wilkins Street, it continues within Town of Hudson–owned property for approximately 230 feet, to connect to the existing Assabet River Rail Trail (ARRT). It also continues southwest within Wilkins Street and Forest Avenue for approximately 1.4 miles to the Hudson Light and Power Substation, which is exempt pursuant to 310 CMR 10.02(2)(b)1.

The following freshwater wetland resource areas are present within or proximate to the Project Site: Bank, LUWW, BVW, BLSF, ILSF, and RFA. Major features consist of wetlands associated with the Assabet River and Fort Meadow Brook. In addition, there are two certified vernal pools within the site and the project passes through a Zone II Wellhead Protection Area associated with Hudson’s public water supply. A portion of the Project Site within the MBTA ROW east of White Pond Road to the Hudson/Sudbury town line is within Priority and Estimated Habitat of rare species.

All wetland resource areas within the Project Site, except for the MCRT Connection to the ARRT, were reviewed and approved in an ORAD, 190-0611, issued February 6, 2018. The additional Resource Areas near the MCRT Connection to the ARRT are approved as part of this Order of Conditions.

The bridge spanning Fort Meadow Brook within the Project Site is severely damaged and is a historic location of beaver dams. Two streams, one perennial (Stream 1) and one intermittent (Stream 3), cross beneath the Project Site through stone and clay culverts, both of which are over 100 years old.

Proposed Conditions

The Project includes installation of a 115 kilovolt underground electric transmission line (Phase 1), followed by completion of a portion of the regional Massachusetts Central Rail Trail (MCRT) (Phase 2) in the same footprint. In addition to the work in the MBTA ROW, the project will include a connection to the existing ARRT alongside the existing parking lot on Wilkins Street and installation of underground transmission line within public roadways for connection to the Hudson Light and Power substation.

Phase 1 of the Project will be implemented by Eversource and will include all major earthwork, bridge reconstruction, construction of the Chestnut Street underpass, installation of the underground transmission line, and the majority of the restoration work. Phase 2 of the Project will be under the control and responsibility of DCR and will include installation of road crossings, paving the MCRT, and final restoration. Long-term, ongoing maintenance shall be the responsibility of DCR.

The limits of work will mostly be 22 feet in width. The final paved bike path will be 10 feet wide. The graded platform will also contain a 5-foot corridor that contains the

Special Conditions Under Massachusetts Wetlands Protection Act
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underground duct bank. Two-foot shoulders on either side of the path will be loamed and seeded. The remainder of the 22-foot work area will be restored to a naturally vegetated state. In some sensitive environmental areas the work area will be reduced to 18 feet in width, with the duct bank beneath the paved bike path. There will be an access manhole approximately every 1500 feet, which will require a work area 40 feet wide by 50 feet in length. There will be ten such manholes in Hudson, three of which are in jurisdictional areas: one in River Front Area and two in Buffer Zone.

The only BVW disturbance will be at Fort Meadow Brook. The existing bridge is burned and badly damaged and must be replaced. Crane mats will be used to allow cranes to remove the old bridge and install a new single span bridge in its place. Areas disturbed by the crane mats will be restored.

There are some Time-Of-Year (TOY) restrictions set by Natural Heritage and Endangered Species Program (NHESP). Wildlife habitat in critical areas will be restored by replacing dead snags and brush piles that are removed for construction and revegetating the areas. TOY restrictions within Vernal Pool migration areas have been extended to include March 1 through June 1.

Storm water management on the bike path will mostly rely on sheet flow through a vegetated filter strip. There will be some drainage swales with check dams, one leaching catch basin and an infiltration basin at the ARRT trail head.

Maintenance of the bike path will include mowing or weed-whacking the 2-foot shoulders biweekly during the growing season, or as needed, and mowing the 5-foot corridor over the duct bank once a year. Invasive species removal will be by mechanical means when possible and spot treatments of herbicide by a licensed applicator when other approaches are not effective. Trash on the bike path shall be removed and disposed of. Natural debris such as leaves and twigs may be blown off the sides of the bike path except in areas near vernal pools.

Mitigation Plantings

There will be significant reseedling of disturbed Riverfront Area with a seed mix containing both herbaceous and woody vegetation. In addition, 600 woody plantings shall be installed in five areas along the Project corridor. In the Riverfront Area associated with Fort Meadow Brook, approximately 19 trees and 122 shrubs shall be planted in addition to the seed mix, and 40 aquatic plugs shall be installed in the area of BVW disturbed by the crane mats. Shrubs shall also be planted along the 2500 linear feet of Priority Habitat Areas.

Compliance with Applicable Performance Standards:

Both the transmission line and the rail trail qualify as Limited Projects under the Wetlands Protection Act Regulations. The Project complies with all applicable performance standards for BVW, BLSF, and ILSF, but exceeds the 10 percent threshold in the RFA performance standards due to the long, linear nature of the project and disturbs vegetation within the inner 100-foot RFA. This is permitted for Limited Projects if the applicant meets the Performance Standards to the maximum extent practicable. The Commission

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was satisfied that this requirement has been met and that mitigation has been provided in the form of restoration plantings in Riverfront Area. There will be no permanent impact to BVW and there will be a minimal increase in flood storage area.

Documents:

- Notice of Intent: Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Hudson, MA; prepared by VHB; dated January 2020
- Stormwater Report: Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Hudson, MA; prepared by VHB; dated January 2020
- Wildlife Habitat Evaluation: Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project, Hudson, MA; prepared by VHB; dated January 2020
- Eversource Sudbury-Hudson Transmission Reliability Project: Hudson Notice of Intent Plans; prepared by VHB; dated January 2020; revised July 24, 2020; signed and stamped by Mark Edward Shamon, PE# 35329; scale 1"=20'
- Commonwealth of Massachusetts Department of Conservation and Recreation, Division of Planning and Engineering; Mass Central Rail Trail in the towns of Hudson, Stow, Marlborough & Sudbury; prepared by VHB; dated Jan 2020; signed and stamped by Trace A. Lenhardt, PE# 47612; scale 1"=20'
- NSTAR Electric Company d/b/a Eversource Energy Sudbury to Hudson 115kV Underground Transmission Line; prepared by Power Engineers; dated 12/30/2020; signed and stamped by Todd S. Goyette PE#45181; scale 1"=20'
- Wetland Peer Review – Notice of Intent Sudbury-Hudson Transmission Reliability and MA Central Rail Trail Project; prepared by WDA Design Group; dated 3/11/2020
- Questions for Hearing on 6-4; submitted by Hudson Conservation Commission
- Hudson ConCom_RTC_6-11-20; submitted by VHB Associates
- Letter from WDA Design Group dated July 14, 2020
- WDA Design Group Peer Review – Applicants' Response to Additional Comments Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project; prepared by VHB; dated July 27, 2020
- Peer Review – Notice of Intent (DEP File #190-0647) Sudbury-Hudson Transmission Reliability and MA Central Rail Trail Project Eversource and DCR - Hudson, Massachusetts; prepared by WDA; dated 8/3/2020
- Corridor Management Plan for Massachusetts Central Rail Trail-Wayside Section and Sudbury-Hudson Transmission Reliability Project

Special Conditions

GENERAL:

19. The Findings of Fact are incorporated as a special condition and given equal status as a special condition of this Order.

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20. No excavated material shall be disposed of in violation of any local, state, or federal laws. All stumps must be removed from the site; no burying of stumps on site is permitted.
21. Plantings must be native plants or substitutions only as identified on the approved plans. No invasive vegetation shall be planted.

PRECONSTRUCTION:

22. Within thirty (30) days of the issuance of this Order of Conditions, the applicant, property owner, project representative, or other applicable party must record the original copy of the Order with the Registry of Deeds. Proof of recording is required to be submitted to the Commission or Conservation Agent prior to the pre-construction site visit and commencement of work.
23. Erosion controls shall consist of (a) silt fence or (b) silt fence with compost filter tubes, double-staked straw bales, or wattles, as shown on the plans. Only invasive seed free erosion controls shall be used. Syncopated fencing shall be used within 450 feet of vernal pools. A silt curtain shall be used in Fort Meadow Brook near the bridge if conditions warrant.
24. Prior to the beginning of each Phase, the applicant shall:
 - a. Provide the Conservation Commission with the name and telephone number in writing, of the person who will be immediately responsible for supervision of all work on the project site and compliance with this Order of Conditions. The Conservation Commission shall be notified in the event that the site supervisor or contractor is changed.
 - b. Clearly mark the limits of work in the field and instruct all workers not to work beyond the limits.
 - c. Notify Conservation Commission of the date upon which work will commence and provide the commission with the most up-to-date project timeline and project workflow.
 - d. Properly install all siltation controls according to the plans approved by the Conservation Commission and arrange with the Commission to have a site visit after installation, before work begins.
25. Environmental Monitoring:
 - a. Resumes of Environmental Monitors being considered for the project shall be submitted to the Commission for review.
 - b. If the chosen Environmental Monitor does not have a qualified Vernal Pool Biologist or equivalent, a separate Vernal Pool Specialist shall be hired by the applicant to approve and supervise work within 450 feet of Vernal Pools during the TOY restriction of March 1 to June 1. A qualified Vernal Pool Specialist will have at least three years of experience

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conducting vernal pool assessments or surveys in the northeastern United States.

26. A structural engineer shall inspect the culverts conveying Streams 1 and 3 beneath the MBTA ROW within the Project Site to determine whether they are structurally sound to (a) function hydrologically and (b) withstand the planned construction activities, and shall provide a report of the findings to the Commission. If either culvert does not meet these requirements or is damaged during construction, it shall be replaced with a culvert that meets current MA Stream Crossing Standards to the maximum extent practicable, as determined by the Commission or its Agent, during construction.
27. The following final documents shall be provided for review and comment by the Conservation Commission:
 - a. Final Stormwater O&M Plan
 - b. Final Stormwater Pollution Prevention Plan
 - c. Final MOU between Eversource and DCR on Corridor Maintenance and Management
 - d. Soil and Groundwater Management Plan
 - e. Structural Engineer report on culvert conditions

DURING CONSTRUCTION

28. All Time-Of-Year (TOY) construction restrictions and sweeps required by the Natural Heritage and Endangered Species Program shall be followed. Time-of-Year restrictions for work within 450 feet of vernal pools shall be March 1 through June 1. Between March 1 and June 1, the Environmental Monitor shall conduct sweeps prior to vehicles traveling down the Project Site within vernal pool buffers. Between April 1 and Oct 31, the Environmental Monitor shall conduct turtle sweeps prior to initiating work in, or prior to vehicles traveling through, the Box Turtle Protection Area.
29. There shall be a qualified Environmental Monitor on site at all times that work is being performed in jurisdictional wetland areas. The Environmental Monitor shall send weekly reports and reports following any storm events of ½ inch or greater electronically to the Conservation Agent.
30. Detailed construction sequencing and schedules shall be submitted to the Commission electronically, as they are completed or whenever they are revised.
31. The applicant shall endeavor to locate a supplier of pesticide-free seed mixes. All restoration seed mixes shall be pesticide-free if practicable. Documentation of seed sources shall be provided to the Commission, prior to purchase if practicable.
32. Detailed sequencing of the bridge removal work based on water levels and other conditions at the time of removal shall be provided to the Commission prior to commencement of work in this area. A silt curtain shall be used if conditions

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warrant. The Conservation Agent shall be notified when bridge removal is to begin and perform a site inspection before work commences. The Conservation Agent shall be kept informed on a daily basis of bridge work to be performed and when the work is complete, and shall perform site inspections before any phase of work as the Commission or Agent deems appropriate.

33. Trash removal shall be performed along the ROW, even outside the limits of work, as practicable. Locations of trash removal shall be determined by a site walk of the applicant and Conservation Agent and/or Commissioner.
34. If dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100' of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification.
35. If on-site excavation or other work reveals any soil contamination in reportable concentrations or quantities, the Conservation Commission shall be notified and shall be copied on all related correspondence.
36. The Conservation Commission shall be notified of any remedial activities or changes to the work plans required due to the potential presence of PFAS in the Zone II wellhead area or other jurisdictional areas.
37. The catch basin at stations 119 shall be a leaching catch basin.
38. All equipment and timber mats shall be cleaned prior to use on the site to prevent the introduction of invasive species. If it is necessary to clean construction equipment while on site, it must be cleaned outside of the 100-foot Buffer Zone, Riverfront Area, or any other Resource Area.

CONSTRUCTION GAP BETWEEN PHASE 1 PHASE II

39. If there is a gap between Phase 1 and Phase 2, erosion controls shall be maintained by Eversource. Erosion control in Priority and Estimated Habitat of Rare Species and within 450 feet of Vernal Pools may require removal. This shall be determined by a site walk with the applicant and Conservation Agent.
40. If there is a gap between Phase 1 and Phase 2, Eversource shall be responsible for the health of the restoration areas and the control of invasive species in these areas.

POSTCONSTRUCTION

41. Prior to the issuance of a Certificate of Compliance the site shall be stabilized with vegetation or other measures approved by the Conservation Commission.
42. Prior to the issuance of a Certificate of Compliance and after the site has been stabilized, all erosion controls shall be removed from the site.
43. Two (2) full growing seasons shall be required to determine that any plantings within buffer zones and/or resource areas or as part of any mitigation plan have successfully

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established or may require replanting in case of significant failure.

- a. During this 2-year period, the applicant/property owner shall submit a report from a qualified wetlands scientist or landscape specialist at the end of each growing season describing the condition of the plantings following installation. If greater than 25% of plantings are not in good health then replacement plantings are required.
 - b. The consultant shall prepare a final report on the status of the plantings as part of the Request for a Certificate of Compliance. Successful establishment of the plantings will mean that at least 75% of the plantings have survived and are in good health and that the planting is free of invasive species. Successful establishment is a requirement for the issuance of a Certificate of Compliance.
44. Prior to the issuance of a Certificate of Compliance, the applicant shall submit to the Conservation Commission for review and approval an as-built plan and a letter of compliance stamped by a registered professional engineer. Said plan and letter shall show that all conditions of this Order have been complied with in substantial compliance with the Order and explain any differences from the approved plans.

CONDITIONS IN PERPETUITY

45. When maintaining the path, no debris including natural debris such as leaves and twigs shall be blown or swept from the bike path into areas within 25 feet of vernal pools. The boundaries of these areas shall be indicated with a method to be determined before the Certificate of Compliance is granted. This Condition is ongoing and does not expire with the expiration of the Order of Conditions or the issuance of a Certificate of Compliance.
46. The culverts beneath the ROW shall be inspected and cleared of debris at least annually. If the culverts become damaged or no longer function as required, they shall be replaced according to the most current MA Stream Crossing Standards. This Condition is ongoing and does not expire with the expiration of the Order of Conditions or the issuance of a Certificate of Compliance.
47. DCR shall notify the Commission in advance if herbicides are to be used for vegetation control within wetland jurisdictional areas, indicating the target control species, the type(s) of herbicide to be used, and the on-going maintenance plan for the targeted area. This Condition is ongoing and does not expire with the expiration of the Order of Conditions or the issuance of a Certificate of Compliance.



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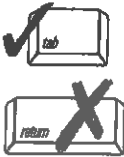
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A. General Information

Please note:
 this form has
 been modified
 with added
 space to
 accommodate
 the Registry
 of Deeds
 Requirements

1. From: Stow
 Conservation Commission
2. This issuance is for
 (check one): a. Order of Conditions b. Amended Order of Conditions
3. To: Applicant:

Important:
 When filling
 out forms on
 the
 computer,
 use only the
 tab key to
 move your
 cursor - do
 not use the
 return key.



a. First Name Eversource / MA DCR b. Last Name _____
 c. Organization NSTAR Electric Company d/b/a Eversource Energy, 247 Station Drive /
Massachusetts Department of Conservation and Recreation, 251 Causeway St, 9th Floor
 d. Mailing Address Westwood / Boston e. City/Town MA / MA f. State 02090/02114 g. Zip Code

4. Property Owner (if different from applicant):

a. First Name Massachusetts Bay Transportation Authority b. Last Name _____
 c. Organization 10 Park Plaza
 d. Mailing Address Boston e. City/Town MA f. State 02116 g. Zip Code

5. Project Location:

MBTA ROW/Central Mass Line Railroad a. Street Address Stow b. City/Town
U7 c. Assessors Map/Plat Number 3 d. Parcel/Lot Number



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Sq ft between 100-200 ft	3,240 temp/1,751	3,240 temp/1,751	1,489 i. square feet	1,489 j. square feet
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B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	_____ a. square feet	_____ b. square feet		
	_____ c. c/y dredged	_____ d. c/y dredged		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	_____ a. square feet	_____ b. square feet	_____ c. nourishment cu yd	_____ d. nourishment cu yd
14. <input type="checkbox"/> Coastal Dunes	_____ a. square feet	_____ b. square feet	_____ c. nourishment cu yd	_____ d. nourishment cu yd
15. <input type="checkbox"/> Coastal Banks	_____ a. linear feet	_____ b. linear feet		
16. <input type="checkbox"/> Rocky Intertidal Shores	_____ a. square feet	_____ b. square feet		
17. <input type="checkbox"/> Salt Marshes	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
18. <input type="checkbox"/> Land Under Salt Ponds	_____ a. square feet	_____ b. square feet		
	_____ c. c/y dredged	_____ d. c/y dredged		
19. <input type="checkbox"/> Land Containing Shellfish	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	_____ a. c/y dredged	_____ b. c/y dredged		
21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____ a. square feet	_____ b. square feet		



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B. Findings (cont.)

* #22. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BVW) or B.17.c (Salt Marsh) above, please enter the additional amount here.

22. Restoration/Enhancement *:

a. square feet of BVW

b. square feet of salt marsh

23. Stream Crossing(s):

a. number of new stream crossings

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on 7/10/2023 unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]
"File Number 299-677 "
11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation



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Commission.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. **The work associated with this Order (the "Project") is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:**

a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:

- i. all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
- ii. as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
- iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
- iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
- v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.

- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

see attached



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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No
2. The Stow Conservation Commission hereby finds (check one that applies):
- a. that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

- b. that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

Stow Wetlands Bylaw

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):
see attached

ORDER OF CONDITIONS #299-677

**Massachusetts Wetlands Protection Act and Town of Stow Wetland Bylaw
Off Marlboro Road, Stow, MA
Assessors Map U7, Parcel 3**

List of Submittals for the Record

From the Applicant:

- Notice of Intent with Stormwater Management Report
- Mass Central Rail Trail Plans, last revised 3/4/20, 9 sheets
- Transmission Line Plans along MTBA Right of Way, last revised 3/4/20, 19 sheets
- Cover Letter and Supplemental Riverfront Area Narrative Submitted for Eversource by VHB dated 3/4/20
- Memo from VHB re: Sudbury-Hudson Soil and Groundwater Analytical Results, dated 3/18/20
- Email from VHB re Soil and Groundwater Sampling Results dated 3/23/20
- Response to Questions about Soil and Groundwater Sampling Results, dated 3/30/20

From Members of the Public, Organizations and Officials

- Email from Laurel Cohen dated 2/28/20 re project concerns
- Email from Laurel and Steve Cohen dated 4/7/20 re project concerns
- Email from Margaret Costello with attached public hearing statement dated 3/6/20
- Email from Rebecca Cutting (Sudbury) dated 3/5/20
- Email from David Gray regarding project hearing dated 3/4/20
- Email with letter from Bhaïrd Campbell dated 4/6/20 re procedural questions
- Copy of Letter from Sen. James Eldridge, Rep. Kate Hogan, Rep Carmine Gentile to Jim Montgomery, Commission of Department of Conservation and Recreation re project concerns, dated 5/14/20 and email transmitting letter
- Email/Letter from Bhaïrd Campbell dated 4/6/20 re procedural concerns.
- Letter from Sudbury Valley Trustees dated 4/2/20 re project concerns
- Letter from Protect Sudbury Inc. dated 4/2/20 re project concerns with seven attachments
- Email from Gleasondale Steering Committee dated 5/28/20 re project concerns
- Statement from Margaret Costello for the record, dated 6/2/20
- Email and List of Questions from Rebecca Cutting of Sudbury dated 6/2/20

From Regional Conservation Commissions

- Peer Review for the Town of Hudson Conservation Commission by WDA Design Group, dated 3/11/20
- Letter from VHB responding to Hudson Peer Review on behalf of Applicants, dated 3/13/20
- Follow up Peer Review Letter from the Town of Hudson Conservation Commission by WDA Design Group, dated 4/9/20
- Peer Review for the Town of Sudbury Conservation Commission by BETA, dated 5/11/20

- "Conservation Commission and Public Comments on the Eversource/DCR Notice of Intent Application", undated, from the Sudbury Conservation Commission

Other Materials

- DEP Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails, undated.
- Energy Facilities Siting Board Decision, dated 12/18/19
- Letter from Mass DEP to MEPA Commenting on Draft EIR, dated 12/8/17

Conservation Commission Findings:

1. The applicants have filed a Notice of Intent for work proposed within an area subject to regulation under the Massachusetts Wetlands Protection Act and the Town of Stow Wetlands Protection Bylaw and Regulations.
2. NSTAR Electric Company d/b/a Eversource Energy ("Eversource") and the Mass Department of Conservation and Recreation ("DCR") are applying jointly for Eversource to install a 115 kV underground electric transmission line and for DCR to complete construction of a 10 foot wide multi-use path along a portion of the Massachusetts Bay Transportation Authority right-of-way, an inactive railroad right of way. The stated goal of the transmission line is to improve reliability of electric service in the region and the goal of the multi-use path is to advance a regional multi-use trail project. The construction would extend from Sudbury, through Stow and Marlboro and into Hudson. The portion of the project in Stow is approximately 350 feet long and entirely within the railroad right of way between Wilkins Street and Chestnut Street.
3. The project will be built in two phases: Phase 1 will be completed by Eversource and will entail vegetation clearing, installation of erosion controls, removal of existing railroad track and ties, site preparation, installation of the underground transmission line, grading, stormwater controls, installation of a final gravel base and site stabilization. Eversource will be responsible for the property until Phase 2 commences. Phase 2 will be completed by the MA Department of Conservation and Recreation and would entail paving of the multi-use recreational path, grading, final seeding, signage and access controls. The timing of commencement of both phases is unclear at this time, given pending appeals and funding issues.
4. The Eversource portion of the project has received approval from the Energy Facilities Siting Board in a decision dated 12/18/19.
5. Riverfront Area Impacts: Portions of the proposed work are within the Riverfront Area to an unnamed perennial stream which flows into the Assabet River, the 100' buffer zone to Bordering Vegetated Wetlands (BVW), and within the 100' buffer zone to Bordering Land Subject to Flooding under the Town of Stow Wetlands Protection Bylaw. The total Riverfront Area alteration is 5,111 square feet, all of which is in the Outer Riparian Zone. Of this, 1,751 sq. ft. is permanent disturbance and 3,360 sq. ft. is temporary disturbance. There is a total of 13,925 square feet of Riverfront Area on the property. This means that the amount of total alteration (and permanent alteration) is greater than the 10% performance standard in the Wetlands Protection Act.

6. Buffer Zone Impacts: The amount of disturbance to the 100' buffer to BVW is a total of 3,602 sq. ft. of which 1,357 sq. ft. is permanent disturbance and 2,245 sq. ft. is temporary disturbance.
7. BLSF Buffer Zone Impacts (Bylaw): The amount of disturbance to the 100' buffer to BLSF is a total of 9,246 sq. ft., of which 3,399 sq.ft. is permanent disturbance and 5,847 sq. ft. is temporary disturbance. The Town of Stow Wetlands Bylaw and Regulations contain no performance standards for this resource area. No work will occur within Bordering Land Subject to Flooding.
8. Both the underground transmission line and the rail trail qualify as limited projects under the Wetlands Protection Act Regulations. Reference is made to Sections 310 CMR 10.53(3)(d) [Construction of underground and overhead public utilities] and 10.53 (6) [bikepaths to or along Riverfront Areas]. The Commission has the authority to waive strict compliance with the performance standards and require compliance to the maximum extent feasible for such limited projects.
9. The Commission finds that the two phases of the project as proposed are limited projects and that the applicant has complied with the Riverfront Area performance standards to the maximum extent feasible.
10. The applicant has also argued that portions of the Riverfront Area are previously developed pursuant to the meaning of that term in 310 CMR 10.58(5) of the Wetlands Protection Act regulations. The Commission makes no finding as to whether the Riverfront Area on the project site is "previously developed" within the meaning of the regulations, as no such finding is needed to allow the project to proceed in Stow given the previous finding relative to limited projects.
11. There is no Estimated Habitat of Rare Species within the project locus in Stow and no certified or potential vernal pools.
12. No work will occur within the 35' undisturbed buffer area required by the Town of Stow Wetlands Protection Bylaw and Regulations.
13. Concern was expressed at the public hearing by members of the public that contaminated soils may be disturbed during project construction. No documentation was provided as to actual contamination at the project locus and none are listed on DEP's online inventory of waste sites in Massachusetts. Eversource performed limited soil testing, however none of this testing was completed in Stow. The applicant is required to comply with DEP's Massachusetts Contingency Plan requirements, where applicable, as well as DEP Best Management Practices for Controlling Exposure to Soil during the Development of Rail Trails (undated).
14. Information submitted by the applicant indicates that groundwater flow in the area is roughly from north to south. No evidence was provided at the public hearings to the contrary.

15. Concern has been expressed by some members of the public about the use of herbicides for vegetation management along the right of way. In Phase 1, and until the initiation of Phase 2, no herbicides will be used, and all vegetation removal will be strictly mechanical. The Department of Conservation and Recreation will be responsible for long-term vegetation management along the rail trail right of way following the Completion of Phase 2. They have indicated that most vegetation management along the right of way will be done mechanically, but are seeking to use herbicides selectively, as a tool of last resort to address difficult to manage species such as bittersweet in tree canopies, poison ivy and Japanese knotweed. All herbicide application would be by a licensed pesticide applicator using commonly available general (not restricted) use pesticides and in accordance with a Vegetation Management Plan.
16. The Commission held a duly noticed public hearing on March 4, 2020 at which testimony was taken on the project. The hearing was subsequently continued without further testimony to April 7, 2020, April 21, 2020, and May 19, 2020. On May 19, 2020, the hearing was continued to June 2, 2020 at which time a second public hearing was held. The hearing was held by remote participation pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law, Chapter 53 of the Acts of 2020, G.L. c. 30A, §18, and the Governor's March 15, 2020 Order imposing strict limitation on the number of people that may gather in one place. The hearing was closed on June 2, 2020. Interested parties were given ample opportunities for written and verbal comments on the project.
17. The Commission has voted to issue an Order of Conditions with the above findings and the following special conditions, together with DEP's general conditions, all of which are necessary to enable the project to be in compliance with the Wetlands Protection Act and regulations and the Town of Stow Wetlands Bylaw and regulations.

Special Conditions for Phases 1 and 2

Pre-Construction Conditions – Phases 1 and 2

21. The form provided at the end of this Order shall be completed and stamped at the Middlesex Registry of Deeds. This form shall be returned to the Commission in accordance with General Condition #8, and prior to the commencement of Phase 1.
22. All work shall be performed in accordance with the final plans as described in the Notice of Intent or as specified in this Order of Conditions. No filling or excavating of land beyond the limits or above the grades on the submitted plans is authorized. Any deviation from the approved plans shall require prior approval from the Stow Conservation Commission. This may require resubmission or modification of the Notice of Intent.
23. At least 45 days prior to the anticipated start of Phase 1 construction, the following final documents shall be provided for review and approval of the Stow Conservation Commission or their designee:

a) Two copies of the final dated and stamped construction plans (all pages shall be stamped) for the Stow portion of the Eversource transmission line with the following revisions made to the plans:

i) The location of any construction stockpiles shall be shown on the plans along with a detail for protecting stockpiles from erosion by water and wind at the end of each workday. All stockpiles shall be within the limit of work.

ii) A note shall be added to the dewatering detail indicating that the Conservation Commission shall be notified in advance of any planned dewatering and must approve this work in the field prior to commencing dewatering.

iii) Erosion control barriers shall either be shown as continuous, with straw wattle used to demarcate the limit of work in all areas where the plans do not show erosion controls, or plastic construction fencing shall be used to mark the limit of work in these areas. The plans shall show a continuous physical barrier along the right of way which shall serve as a limit of work.

iv) A note shall be added indicating that the Conservation Commission shall be notified in the event that dust controls beyond water spraying is required on the project site.

b) Two copies of the final stamped plans (all pages shall be stamped) of the DCR Rail Trail construction plans. If these plans are subsequently modified, updated plans shall be provided at least 45 days prior to the start of Phase 2 for the Commission's review and approval.

i) The location of any construction stockpiles shall be shown on the plans along with a spec for stockpile management.

ii) Erosion control barriers shall either be continuous, with straw wattle used to demarcate the limit of work in all areas where the plans do not show erosion controls or plastic construction fencing shall be used to mark the limit of work in these areas.

c) A copy of the final Stormwater O&M Plan.

d) A copy of the final Soil and Groundwater Management Plan.

e) A copy of the MOU between Eversource and DCR on Corridor Maintenance and Management.

The review of these plans and documents shall be limited to a determination of consistency with prior submittals and the conditions of this decision.

24. **At least one week prior to the anticipated start of Phase 1 construction by Eversource, the Stow Conservation Commission shall be notified and given the opportunity to inspect the erosion controls and participate in a pre-construction site meeting. The following shall be provided at or prior to the pre-construction meeting:**

a) The applicant shall advise the Commission of the name(s) and contact numbers(s) of the person(s) responsible on site for compliance with this Order, including the on-site Environmental Monitor.

b) A copy of this Order including final plans shall be on the site upon commencement and during any site work for contractors to view and adhere to.

- c) The Certificate of Understanding for this project must be signed by Eversource and the on-site supervisor responsible for the project(s).
- d) A project schedule must be provided to the Commission.
- e) If wetland flagging is no longer obvious in the field, these flags shall be replaced prior to the pre-construction site meeting.
- f) The DEP file number sign shall be posted as required by the general conditions.

25. **At least one week prior to the anticipated start of Phase 2 construction by the Department of Conservation and Recreation (DCR), the Stow Conservation Commission shall be notified and given the opportunity to inspect the erosion controls and participate in a Phase 2 pre-construction site meeting. The following shall be provided at or prior to the pre-construction meeting:**

- a) The applicant shall advise the Commission of the name(s) and contact numbers(s) of the person(s) responsible on site for compliance with this Order, including the on-site Environmental Monitor.
- b) A copy of this Order including final plans shall be on the site upon commencement and during any site work for contractors to view and adhere to.
- c) The Certificate of Understanding for this project must be signed by DCR and the on-site supervisor responsible for the project(s).
- d) A project schedule must be provided to the Commission.
- e) If wetland flagging is no longer obvious in the field, these flags shall be replaced prior to the pre-construction site meeting.
- f) The DEP file number sign shall be posted as required by the general conditions.

During Construction Conditions – Phases 1 and 2

- 26. The Stow Conservation Commission shall be notified of the time and location of regular project meetings relative to construction within the Town of Stow and provided with copies of meeting notes as applicable.
- 27. Sediment and erosion control devices shall be installed in accordance with the final plan by Eversource prior to the beginning of Phase 1 construction, and shall be maintained for the duration of construction on the site. **If there is a gap between Phase 1 and Phase 2, Eversource shall be responsible for monitoring and maintaining erosion controls and site stabilization until Phase 2 commences or until a Partial Certificate of Compliance is issued for Phase 1 in accordance with the condition below. A second erosion control barrier inspection shall be required prior to the commencement of Phase 2, and the Commission may require that erosion controls be replaced or repaired by the Department of Conservation and Recreation at this time in order to maintain their full functionality.**
- 28. The erosion controls shall serve as a limit of work and no activity, including stockpiling or storage of material, is permitted beyond the sediment controls. The sediment and erosion control specifications in this Order and on the final plans will be the minimum standards for this project; the Commission may require additional measures. These will be maintained in good repair until the disturbed area is re-vegetated and stabilized to the

satisfaction of the Stow Conservation Commission at which time they must be removed. **The Stow Conservation Commission shall be contacted and approval obtained prior to removal of sediment and erosion controls.**

29. The areas of construction shall remain in a stable condition at the close of each construction day. All trenches shall be backfilled or secured at the completion of each work day. Sediment and erosion controls shall be inspected daily and repaired or reinforced or replaced as necessary, with any accumulated sediments removed as needed. A stockpile of additional sediment and erosion controls shall be maintained on the site for this purpose.
30. The Commission shall be notified if dewatering is deemed necessary during construction activities and given an opportunity to review the proposed location and method of dewatering prior to the commencement of dewatering activities. No direct discharge to a waterbody is permitted. No overland discharge of water is allowed within 100 feet of vegetated wetlands.
31. Concrete wash-out water shall not be discarded within the 100' buffer or within 100' of any drainage system that may discharge to wetlands or outside of the limit of work. All washout materials will be managed with an appropriate BMP. If concrete is spilled during construction, spilled materials shall be removed from the buffer zone and disposed of properly.
32. SWPPP Inspection reports shall be provided to the Commission electronically within 48 hours of completion. The Commission shall be kept apprised of any corrective actions needed and taken.
33. If on-site excavation or other site work during Phase 1 or Phase 2 reveals any soil contamination in reportable concentrations or quantities, the Stow Conservation Commission shall receive notification concurrent with Mass DEP and shall be copied on all correspondence relating to site investigation and remedial actions. Remedial activities may require filing of an additional Notice of Intent in accordance with the Wetlands Protection Act and Stow Wetlands Bylaw.
34. If disturbed areas are not permanently stabilized by the end of the growing season, the owner must monitor the area and install or repair sediment and erosion controls to protect the resource area until the site is stabilized.
35. There shall be no outside storage of chemicals, oil, fuel, fertilizer, or other potentially hazardous materials within the limit of work. No refueling shall occur within the 100' buffer. A spill containment kit shall be kept on site at all times.
36. All waste and excavated material including railroad ties and tracks shall be disposed of in accordance with applicable laws. Any fill or borrow material brought onto the project site in Stow from outside of Stow shall be 1) re-located from qualified immediately adjacent residential areas per DEP's *Best Management Practices for Controlling Exposure to soil during the Development of Rail Trails*; 2) certified as clean fill by the supplier; or 3) subject to analytical testing.

37. All imported soils shall be clean and reasonably free of invasive species. No soil contaminated with Japanese knotweed and/or knotweed rhizomes may be reused in Stow. The Environmental Monitor shall identify and document any areas contaminated with Japanese knotweed within 500' of the eastern and western Town of Stow line prior to commencing construction.

Closing the Project

38. Eversource shall notify the Commission upon the completion of the work in Phase 1. Eversource shall be required to maintain erosion controls and site stabilization until a Phase 1 Partial Certificate of Compliance is received by Eversource or the Conservation Commission receives formal notification via DCR that they are commencing Phase 2 and a Certificate of Understanding is received from DCR per Condition #25.
39. **Certificates of Compliance:**

Phase 1:

If Eversource desires a Partial Certificate of Compliance, it may submit the following to the Stow Conservation Commission:

- a. A letter from the applicant requesting a Partial Certificate of Compliance.
- b. A written statement from a registered professional engineer of the Commonwealth and as-built plan signed and stamped by a registered professional engineer or land surveyor certifying that the project has been constructed as shown on the plan(s) and documents referenced above, and as conditioned by the Commission.
- c. A letter from the Department of Conservation and Recreation assuming responsibility for the management of the site beginning on the date of issuance of the Partial Certificate of Compliance.

Phase 2:

At time that the Department of Conservation and Recreation desires to receive a final Certificate of Compliance, the following must be submitted:

- a. A letter from the applicant requesting a Final Certificate of Compliance.
- b. A written statement from a registered professional engineer of the Commonwealth and as-built plan signed and stamped by a registered professional engineer or land surveyor certifying that the project has been constructed as shown on the plan(s) and documents referenced above, and as conditioned by the Commission.
- c. A plan for the long-term maintenance and vegetation management of the project site consistent with the Perpetual Conditions in this Order of Conditions.

Alternatively, if Phase 2 is abandoned, and the site is fully stabilized, Eversource may submit a request for a Final Certificate of Compliance at the conclusion of Phase 1 with the following:

- a. A letter from the Department of Conservation and Recreation indicating that Phase 2 has been abandoned
- b. A plan for the long-term maintenance and vegetation management of the project site consistent with the Perpetual Conditions in this Order of Conditions and any other restrictions applicable.

Perpetual Conditions

The following conditions will be included in the Certificate of Compliance and will continue in perpetuity:

40. No dumping of leaves, woody debris, dog waste, excessive snow and any other materials is permitted in or within 100' of wetland resource areas, including the Riverfront Area.

41. Herbicide may be applied by the owner/operator or its agents and contractors under an approved Vegetation Management Plan and annual Yearly Operating Plan authorized by the Massachusetts Department of Agricultural Resources. The Stow Conservation Commission shall be provided a copy of these Plans. Mechanical treatment shall be preferred with herbicide used only to control difficult species such as bittersweet, Japanese knotweed, poison ivy or other similar species which may occur along the recreational trail. Any herbicide use shall be limited to general use herbicides applied by a licensed pesticide applicator. If the Town of Hudson restricts the use of herbicides within the Zone 2 of the Cranberry water supply well, these restrictions shall also apply within the Stow portion of the Zone 2.



Massachusetts Department of Environmental Protection
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Provided by MassDEP:
 299-677
 MassDEP File #

eDEP Transaction #
 Stow
 City/Town

E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

7/10/2020

1. Date of Issuance

Please indicate the number of members who will sign this form.

4

This Order must be signed by a majority of the Conservation Commission.

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

by hand delivery on

by certified mail, return receipt requested, on

7-10-2020

Date

Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal



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ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Stow
 Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Stow
 Conservation Commission

Please be advised that the Order of Conditions for the Project at:

N/A MBTA ROW/Central Mass Line
 Railroad

299-677
 MassDEP File Number

Has been recorded at the Registry of Deeds of:

Middlesex	NA	NA
County	Book	Page

for: Property Owner

and has been noted in the chain of title of the affected property in:

Book Page

In accordance with the Order of Conditions issued on:

7-10-2020
 Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

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Provided by MassDEP:
MassDEP File #:301-1287
eDEP Transaction #:1188427
City/Town:SUDBURY

A. General Information

1. Conservation Commission SUDBURY
2. Issuance a. OOC b. Amended OOC
3. Applicant Details
- a. First Name _____ b. Last Name _____
- c. Organization NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY / DEPARTMENT OF CONSERVATION AND RECREATION
- d. Mailing Address 247 STATION DRIVE, SE270 / 251 CAUSEWAY STREET, SUITE 600
- e. City/Town WESTWOOD/ BOSTON f. State MA g. Zip Code 02090/02114
4. Property Owner
- a. First Name _____ b. Last Name _____
- c. Organization MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- d. Mailing Address 10 PARK PLAZA
- e. City/Town BOSTON f. State MA g. Zip Code 02116
5. Project Location
- a. Street Address MBTA ROW FROM TOWN OF HUDSON TO 183 BOSTON POST ROAD (SUDBURY SUBSTATION)
- b. City/Town SUDBURY c. Zip Code 01776
- d. Assessors Map/Plat# H03, J05, J06, K07, K08, K09 K11; K08; K10; K11 e. Parcel/Lot# 5100; 0014; 0402
- f. Latitude 42.36001N g. Longitude 71.39733W
6. Property recorded at the Registry of Deed for:
- | a. County | b. Certificate | c. Book | d. Page |
|--------------------|----------------|--------------|-----------|
| SOUTHERN MIDDLESEX | | 11317 / 7734 | 113 / 426 |
7. Dates
- a. Date NOI Filed : 3/9/2020 b. Date Public Hearing Closed: 2/3/2021 c. Date Of Issuance: 2/4/2021
8. Final Approved Plans and Other Documents
- a. Plan Title: EVERSOURCE SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT SUDBURY NOTICE OF INTENT PLANS (205 PAGES)
- b. Plan Prepared by: VANASSE HANGEN BRUSTLIN, INC.
- c. Plan Signed/Stamped by: KENNETH STAFFIER, P.E. JAN 2021
- d. Revised Final Date:
- e. Scale: 1 INCH = 20 FEET

Massachusetts Department of Environmental Protection

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Provided by MassDEP:

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MASS CENTRAL RAIL TRAIL IN THE TOWNS OF HUDSON, STOW, MARLBOROUGH & SUDBURY (41 PAGES) DRAFT SUDBURY- HUDSON TRANSMISSION RELIABILITY PROJECT STORMWATER POLLUTION PREVENTION PLAN	VANASSE HANGEN BRUSTLIN, INC.	JOSHUA C. CONE- RODDY P.E.	JANUARY 7, 2021	1 INCH = 20 FEET
DRAFT MASSCENTRALRAIL TRAIL - WAYSIDE STORMWATER POLLUTION PREVENTION PLAN	VANASSE HANGEN BRUSTLIN, INC.		MAY 2020	N/A
TIME OF YEAR (TOY)RESTRICTIONS AND GUIDELINES FIGURES (SHEETS 1- 10)	VANASSE HANGEN BRUSTLIN, INC.		OCTOBER 14, 2020	1 INCH = 200 FEET
EASTERN BOX TURTLE PROTECTION PLAN	VANASSE HANGEN BRUSTLIN, INC.		Undated	N/A
DRAFT CORRIDOR MANAGEMENT PLAN FOR MASS CENTRAL RAIL TRAIL - WAYSIDE SECTION AND THE SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT	DEPARTMENT OF CONSERVATION AND RECREATION		AUGUST 7, 2020	N/A

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MASSCENTRAL RAIL

TRAIL (MCRT) -

WAYSIDE SECTION

STORMWATER

MANAGEMENT

SYSTEM OPERATION

AND MAINTENANCE

PLAN

DEPARTMENT OF
CONSERVATION
AND RECREATION

JUNE 2020

N/A

LONG TERM

POLLUTION

PREVENTION PLAN

DEPARTMENT OF
CONSERVATION
AND RECREATION

JUNE 2020

N/A

B. Findings

I. Findings pursuant to the Massachusetts Wetlands Protection Act

Following the review of the the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act.

Check all that apply:

<input checked="" type="checkbox"/> a. Public Water Supply	<input checked="" type="checkbox"/> b. Land Containing Shellfish	<input checked="" type="checkbox"/> c. Prevention of Pollution
<input checked="" type="checkbox"/> d. Private Water Supply	<input checked="" type="checkbox"/> e. Fisheries	<input checked="" type="checkbox"/> f. Protection of Wildlife Habitat
<input checked="" type="checkbox"/> g. Ground Water Supply	<input checked="" type="checkbox"/> h. Storm Damage Prevention	<input checked="" type="checkbox"/> i. Flood Control

2. Commission hereby finds the project, as proposed, is:

Approved subject to:

a. The following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

Denied because:

b. The proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**

c. The information submitted by the applicant is not sufficient to describe the site, the work or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310CMR10.02(1)(a).

_____ a. linear feet

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Inland Resource Area Impacts:(For Approvals Only):

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input checked="" type="checkbox"/> Bank	<u>246</u> a. linear feet	<u>246</u> b. linear feet	<u>246</u> c. linear feet	<u>246</u> d. linear feet
5. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	<u>613</u> a. square feet	<u>613</u> b. square feet	<u>784</u> c. square feet	<u>784</u> d. square feet
6. <input checked="" type="checkbox"/> Land under Waterbodies and Waterways	<u>1146</u> a. square feet <u>0</u> e. c/y dredged	<u>1146</u> b. square feet <u>0</u> f. c/y dredged	<u>1146</u> c. square feet	<u>1146</u> d. square feet
7. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	<u>10435</u> a. square feet	<u>10435</u> b. square feet	<u>7749</u> c. square feet	<u>7749</u> d. square feet
Cubic Feet Flood Storage	<u>54.43</u> e. cubic feet	<u>54.43</u> f. cubic feet	<u>136.88</u> g. cubic feet	<u>136.88</u> h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
Cubic Feet Flood Storage	<u> </u> e. cubic feet	<u> </u> f. cubic feet	<u> </u> g. cubic feet	<u> </u> h. cubic feet
9. <input checked="" type="checkbox"/> Riverfront Area	<u>235668</u> a. total sq. feet	<u>235668</u> b. total sq. feet	<u> </u> c. total sq. feet	<u> </u> d. total sq. feet
Sq ft within 100 ft	<u>181600</u> c. square feet	<u>181600</u> d. square feet	<u>110020</u> e. square feet	<u>110020</u> f. square feet
Sq ft between 100-200 ft	<u>54054</u> g. square feet	<u>54054</u> h. square feet	<u>32385</u> i. square feet	<u>32385</u> j. square feet

Coastal Resource Area Impacts:

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y nourishment	<u> </u> d. c/y nourishment
14. <input type="checkbox"/> Coastal Dunes	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y nourishment	<u> </u> d. c/y nourishment

**Massachusetts Department of Environmental
Protection**

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WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File #:301-1287

eDEP Transaction #:1188427

City/Town:SUDBURY

- a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
 6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not exceed the issuance date of the original Final Order of Conditions.
 7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
 8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work..
 10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

" Massachusetts Department of Environmental Protection"
[or 'MassDEP']
File Number : "301-1287"
 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before Mass DEP.
 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
 13. The work shall conform to the plans and special conditions referenced in this order.
 14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
 16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
 18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During

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WPA Form 5 - Order of Conditions

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construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. The work associated with this Order(the "Project") is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to Stormwater Standards, then the project is subject to the following conditions;
- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Construction General Permit as required by Stormwater Standard 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
 - b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10; *iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.
 - c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
 - d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Multi-Sector General Permit.
 - e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the

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proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.
- g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions:

SEE ATTACHED

**Massachusetts Department of Environmental
Protection**
Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:301-1287
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City/Town:SUDBURY

D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No

2. The Conservation Commission hereby (check one that applies):

a. DENIES the proposed work which cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw specifically:

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order or Conditions is issued. Which are necessary to comply with a municipal ordinance or bylaw:

b. APPROVES the proposed work, subject to the following additional conditions.

1. Municipal Ordinance or Bylaw _____
SUDBURY
ADMINISTRATIVE
WETLAND BYLAW

2. Citation XXII

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows:
SEE ATTACHED

Massachusetts Department of Environmental Protection
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Provided by MassDEP:
 MassDEP File #:301-1287
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 City/Town: SUDBURY

E. Signatures

This Order is valid for three years from the date of issuance, unless otherwise specified pursuant to General Condition #4. If this is an Amended Order of Conditions, the Amended Order expires on the same date as the original Order of Conditions.

Please indicate the number of members who will sign this form. This Order must be signed by a majority of the Conservation Commission.

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

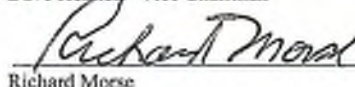
February 4, 2021
 1. Date of Original Order
4
 2. Number of Signers

Signatures:


 Thomas R. Woodlander-Chairman


 Dave Henkel - Vice Chairman

Kenneth Holtz


 Richard Morse

Bruce Porter

Kasey Rogers

Mark Sevier

by hand delivery on

by certified mail, return receipt requested, on

Date

Date February 4, 2021

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

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(M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

SUDBURY
Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:
SUDBURY
Conservation Commission

Please be advised that the Order of Conditions for the Project at:

MBTA ROW FROM TOWN OF HUDSON TO 183
BOSTON POST ROAD (SUDBURY SUBSTATION)
Project Location
301-1287
MassDEP File Number

Has been recorded at the Registry of Deeds of:

County Book Page

for:
Property Owner

and has been noted in the chain of title of the affected property in:

Book Page

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

**Massachusetts Department of Environmental
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Document Number

Signature of Applicant

Rev. 4/1/2010



ORDER OF CONDITIONS
State Wetlands Protection Act &
Sudbury Wetlands Administration Bylaw

DEP FILE #301-1287

Address: MBTA ROW and 183 Boston Post Road

Applicants: Eversource and Department of Conservation and Recreation

Issued: February 4, 2021

The Sudbury Conservation Commission hereby finds that the following conditions are necessary, in accordance with the Performance Standards set forth in the Wetlands Protection Act, its corresponding regulations, and the Sudbury Wetlands Administration Bylaw to protect those interests checked above. To aid in implementation, compliance, and enforcement the specific conditions are divided into several broad categories for reference.

The Sudbury Conservation Commission orders that all work shall be performed in accordance with said conditions and with the Notice of Intent referenced. To the extent that the following conditions modify or differ from the plans, specifications or other proposals submitted with the Notice of Intent, the conditions shall control.

This Decision of the Sudbury Conservation Commission under the Wetlands Protection Act may be appealed to the MA Department of Environmental Protection, Northeast Region.

This Decision of the Sudbury Conservation Commission under the Sudbury Wetlands Administrative Bylaw may be appealed to the Superior Court in accordance with G.L. Ch. 249 §4.

Findings:

The Notice of Intent was filed for the installation of a new 115kV underground electrical transmission line and the construction of a portion of the Mass Central Rail Trail, from the existing Sudbury Substation to the Hudson town line, along the inactive Massachusetts Bay Transportation Authority Right-of-Way, in Sudbury, MA, under the State Wetlands Protection Act and the Sudbury Wetlands Administrative Bylaw.

The Commission finds that portions of the project, as designed and mitigated for, qualifies as a limited project under 310CMR 10.53(3)(d) for Phase I and under 310CMR 10.53(6) for Phase II.

The Commission finds that the stormwater management has been designed in accordance with 310CMR 10.05 (m), as the end use is a non-motorized multi-use trail and Eversource inspection vehicles only need to access the transmission line facility once every three years.

The Commission finds that alternative routes with fewer adverse environmental impacts may exist. However, given the Energy Facilities Siting Board (EFSB) Decision (EFSB I7-02/D.P.U. 17/82/17/83) the Commission was not permitted to evaluate alternative routes under the Wetlands Protection Act. Since this EFSB Decision is currently under Appeal by the Town of Sudbury, if there is a change in the route for the Eversource transmission line as a result of the appeal process, the Applicants shall return to the Commission for further review of any changes to either phase of the project and a determination of the need for potential modifications of this Order.

All wetland resource areas within the Project Locus were reviewed and approved as part of the Abbreviated Notice of Resource Area Delineation (ANRAD) process with the Sudbury Conservation Commission in 2018 through the Order of Resource Area Delineation (ORAD) issued on August 27, 2018. The ORAD included Bordering Vegetated Wetland (BVW), Bank, Land Under Water Bodies and Waterways (LUWW), Bordering Land Subject to Flooding (BLSF), Riverfront Area (RA), and vernal pools, in



ORDER OF CONDITIONS State Wetlands Protection Act & Sudbury Wetlands Administration Bylaw

accordance with Wetlands Protection Act and Sudbury Wetland Bylaw definitions. During the ANRAD review process, the BLSF boundary was established in the field by ground survey by using the 100-year floodplain (i.e., BLSF) base flood elevation. Under the Act, Hop Brook and Dudley Brook are considered perennial and have an associated 200-foot Riverfront Areas. Under the Sudbury Bylaw, all remaining streams on the Project Locus are defined to be perennial and their associated 200-foot Riverfront Area are jurisdictional under the Bylaw Regulations only. In addition, the Sudbury Bylaw regulates activities within the Adjacent Upland Resource Area (AURA), which generally consists of land within 100 feet of wetland resource areas and land within 200 feet from the top of bank of perennial streams and rivers. The AURA for vernal pools, or Vernal Pool Habitat, extends 100 feet from the mean annual high-water line defining the depression. There are also isolated wetlands on the Project Locus that are subject to local and federal jurisdiction. Portions of the project site are also located within Estimated and Priority Habitat for Rare Species, within Coldwater Fishery Resources, and within a Zone II Wellhead Protection Zone. There are 13 wetland areas that would qualify as vernal pools under the state regulations (one is currently certified and 12 contain biological criteria for certification). There are an additional seven wetland areas that are presumed to be vernal pools under the local bylaw only.

The project and conditions and requirements set forth in this Order of Conditions are specific for each phase of construction: Phase I being under the responsibility of Eversource for the installation of the underground transmission line, all major earthwork, installation of the stormwater management system, construction of a 14-foot gravel road, construction/renovation of Bridges 128 and 127, site restoration, and implementation of all mitigation; and Phase II being under the responsibility of the Department of Conservation and Recreation for the paving of the Mass Central Rail Trail, installation of safety plantings and other trail amenities, and long-term maintenance of the corridor, including culverts and drainage structures.

The project proposes disturbance to four acres of land within estimated and priority habitat for four species: Eastern Box Turtle, Eastern Whip-poor-will, Gerhard's Underwing Moth, and Coastal Swamp Metarranthus Moth. As such, the Natural Heritage and Endangered Species Program has reviewed the project and imposed conditions to prevent the "take" of state-listed species in determination letters to the Applicants dated October 19, 2018, and May 17, 2019. These conditions are incorporated herewith.

The Commission finds that this project is designed to meet the performance standards of the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw. Mitigation under the Bylaw for the proposed project actions within the locally regulated Adjacent Upland Resource Area, will be achieved by installation of restoration and mitigation plantings within the limits of work (total of 0.9 acres), debris removal outside the limit of work, creation of strategic brush piles for wildlife habitat, installation of an osprey platform at the existing substation off Boston Post Road, and implementation of a 3.3-acre invasive species management program within the MBTA ROW but outside the limits of work proposed for the Project. The Commission finds the Project, as conditioned in this Order is sufficient to meet the requirements of the state and local wetland regulations.

Final Record Documents:

1. Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project Notice of Intent dated March 2020.
2. Sudbury-Hudson Transmission Reliability and Mass Central Rail Trail Project Wildlife Habitat Evaluation, dated March 2020, with supplemental Wildlife Habitat Evaluation Summary dated October 15, 2020.
3. Eversource Sudbury Notice of Intent Plans March 5, 2020, as revised through January 2021
4. Mass Central Rail Trail Notice of Intent Plan March 5, 2020, as revised through January 7, 2021
5. Draft Eversource Stormwater Pollution Prevention Plan dated May 2020
6. Draft DCR Stormwater Pollution Prevention Plan dated May 2020
7. Sudbury -- Soil and Groundwater Analytical Memo dated June 12, 2020



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8. Time of Year Restrictions Figures June 24, 2020
9. Draft Turtle Protection Plan (undated)
10. Draft Corridor Management Plan dated August 7, 2020
11. MCRT Operation and Maintenance June 2020
12. Long Term Pollution Prevention Plan June 2020

All work must conform to the plans referenced, the Notice of Intent, and this Order. In case of conflict, the requirements in this Order shall prevail. By accepting this Order, the Applicants confirms submission all relevant documentation, reports, and information available to Applicants, in the application submitted and that this information is true and valid to the best of the Applicants' knowledge.

SPECIAL CONDITIONS:

PART I: GENERAL PROJECT CONDITIONS:

For Phase I and Phase II

These conditions apply to all projects permitted by the Sudbury Conservation Commission. They shall remain in force until issuance of a Certificate of Compliance by the Commission. A violation of any of these conditions shall constitute reason for enforcement action by the issuing authority:

- a. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- b. This Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
- c. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, by-laws, or regulations.
- d. The work authorized hereunder, except for that work which has specific timeframes indicated, shall be completed within three years from the date of issuance of this Order unless either of the following apply:
 - 1) the work is a maintenance dredging project as provided for in the Act; or
 - 2) the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance and both that date and the special circumstances warranting the extended time period are set forth in this Order.
- e. This Order may be extended by the issuing authority for one or more periods of up to one year upon application to the issuing authority at least thirty days prior to the expiration date of this Order. In determining whether or not to grant an Extension Permit, the Sudbury Conservation Commission shall review and apply the criteria for extensions of time as set forth in the Regulations.
- f. No work shall be undertaken until all administrative appeal periods from the date of issuance of this Order have elapsed or, if such an appeal has been filed, until all proceedings have been completed.
- g. **No work shall be undertaken until the Final Order has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property.** In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor index under the name of the owner of the land upon which the proposed



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- work is to be done. In the case of registered land, the final Order shall also be noted on the Land Court Certificate of title of the owner of the land upon which the proposed work is to be done.
- h. The recording information shall be submitted to the Commission on the form at the end of the Order, or other form acceptable to the Commission, within thirty days of the issuance of this Order or prior to the start of construction, whichever is sooner.
 - i. Where the Department of Environmental Protection is requested to make a determination and to issue a Superseding Order, the Sudbury Conservation Commission shall be party to all agency proceedings and hearings before the Department.
 - j. The work shall conform to the plans and special conditions incorporated in this document.
 - k. The project engineer, contractors, and all subcontractors must be informed of the conditions in this Order.
 - l. The Applicants are held responsible for compliance with this Order of Conditions. The Sudbury Conservation Commission shall be notified, in writing, within forty-eight hours of any transfers of title on this property.
 - m. This Order of Conditions shall apply to any successor in control, or successor in interest, of the property described in the Notice of Intent and accompanying plans.
 - n. Members and agents of the Sudbury Conservation Commission shall have the right to enter and inspect the property to evaluate compliance with the conditions stated in this Order. When possible prior to project site access, reasonable advance notice will be made. Compliance with health and safety protocols for the project site will be followed.
 - o. Prior to commencement of work, the Applicants shall provide the executed Memorandum of Understanding between Eversource and the Department of Conservation and Recreation and the agreements between the Massachusetts Bay Transportation Authority and the Applicants, to ensure the obligations of the project are fulfilled.
 - p. All Time-of-Year restrictions and sweeps required by the Natural Heritage and Endangered Species Program shall be followed. Time-of-Year restrictions for work within 450 feet of all vernal pools shall be March 1 through June 1. Between March 1 and June 1, the Applicants' Environmental Monitor shall conduct sweeps prior to vehicles traveling down the project site within vernal pool buffers (including certified, certifiable, and presumed vernal pools). Between April 1 and October 31, the Applicants' environmental monitor shall conduct turtle sweeps prior to initiation of work each day, or prior to vehicles travelling through the Box Turtle Protection Area.
 - q. The baseflow and baseline water quality of all Cold Water Fisheries shall be established pre-construction. Baseline monitoring shall be accomplished to ensure there is no degradation of water quality over time from this project. The Applicants shall submit a detailed plan, subject to the Commission's approval, to specify water quality monitoring parameters, including times, methodology, analyses and reporting. Post construction, monitoring may be required and may continue in the Certificate of Compliance based on monitoring result up to that time.
 - r. Prior to commencement of each Phase, the Conservation Commission or its Agent shall map the corridor for the presence of invasive species within and adjacent to the limit of work. The



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information generated from this mapping shall be used to identify any new invasive species populations or significant expansions of invasive species that are a direct result from the Project. Mapping shall be used by the Applicants to implement a program to control invasive species populations to ensure the functions of wetland resource areas in the limits of work that have been restored with native vegetation are not subject to degradation by expansion of invasive species. If the Commission or its agent determines that the Project resulted in new or significantly expanded invasive populations, the Applicants shall implement a program to control these populations to ensure the project does not result in additional degradation of wetland resource areas.

- s. The site shall be accessed predominantly from public ways. If alternative access points are needed, the Applicants will first direct the contractor to use previously disturbed areas outside wetlands jurisdiction. If alternative access is found to be needed within wetlands jurisdiction, access may be permitted within previously disturbed areas that will not require additional vegetation removal or additional impacts to wetland resource areas, with approval from the Commission's representative. No equipment turnaround locations outside the limit of work are permitted.
- t. Laydown areas shall be located predominantly outside resource areas subject to the Commission's jurisdiction. If any construction laydown area is proposed outside of the currently proposed work limits and in an area subject to the Commission's jurisdiction, an erosion control plan shall be submitted in advance to the Commission's representative for review and approval.
- u. Any fill used in connection with this project shall be clean fill, containing no trash, refuse, rubbish or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles or parts of any of the foregoing.
- v. No equipment cleaning or refueling may occur within a wetland or upland resource area, with the exception of the crane. For cranes positioned within wetland jurisdiction for more than one day, the Applicant shall provide secondary containment to contain any leaks that may emanate from equipment.
- w. All equipment, including timber mats, shall be cleaned and certified invasive species free, prior to entering the site. Such certification shall be provided to the Commission prior to commencement of mobilization into the site and when remobilized within the project site.
- x. Heavy mechanical equipment (exerting a ground pressure of 3 psi or greater) will not be allowed in areas where final grading, aeration, and vegetation restoration/mitigation have been completed, including restored and replicated wetland resource areas. Following completion of restoration areas, erosion controls or other method of demarcation shall be implemented to prevent further alteration of restoration areas.
- y. All areas of disturbance shall be monitored for invasive species, which shall be manually removed if encountered, for the duration of the project and until such time as a minimum of 90% native vegetative cover is established.
- z. The wetland replication area and land adjacent thereto shall be monitored for invasive species, and manually removed when found, for the life of the Order. The wetland replication area shall be considered substantially restored when it contains a minimum of 90% cover with native species. Replications that do not properly restore the functions and values of altered resource areas will not be deemed acceptable no matter how closely they adhere to approved engineered plans.



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- aa. There shall be no drafting of water from wetland resource areas for dust control, for watering plantings, or any other activity.
- bb. Every effort shall be made to reduce soil compaction. Compacted soils shall be aerated prior to being revegetated.
- cc. Upon completion of the work associated within each phase, the Applicants shall forthwith request in writing that a Certificate of Compliance be issued stating that the work has been satisfactorily completed and clearly documenting any deviations or deficiencies from the approved plans.

CONDITIONS RELATED TO ENDANGERED SPECIES MANAGEMENT
For Phase I and Phase II

- a. Prior to implementation, the Final Corridor Management Plan for Massachusetts Central Rail Trail and Sudbury-Hudson Transmission Reliability Project that will be provided to the Division of the Fisheries and Wildlife ("the Division") shall be provided to the Commission for review and approval and must be implemented as approved. If changes to said Plan are proposed, the revised Plan to be submitted to the Division shall be submitted to the Commission for review and approval. Vegetated areas over the duct bank and water quality swales (within wetland jurisdictional areas) shall not be mown between April 1 and November 1, unless needed for safety purposes, without prior approval of the Conservation Commission.
- b. Prior to the start of work, the Applicants must submit to the Division and the Commission, for review and approval, a signage plan for the shoulder and duct bank mowing areas, which must describe sensitive dates for the Eastern Box Turtle.
- c. Measures shall be implemented to protect Eastern Box Turtles during construction. Prior to the start of work, a final Eastern Box Turtle Protection Plan must be submitted to the Division and Commission for review and approval, and must be implemented as approved. Said Plan must include detailed turtle protection measures to be implemented by the Applicants. If changes to said Plan are proposed, a revised Plan must be submitted to the Division for review and prior written approval. The Commission shall be provided a copy of the final Eastern Box Turtle Protection Plan along with any modifications thereto.
- d. Prior to the start of work, the Applicants must submit to the Division and Commission, for review and approval, a native seed mix proposed for any planting or loam and seed activities.
- e. Unless otherwise approved by the Division and Commission, proposed wood railings must leave, at a minimum, a 10-inch space beneath the lowest rail for wildlife passage.
- f. Unless otherwise approved by the Division, construction activities within Priority Habitat must not occur during the Eastern Whip-poor-will breeding season (May 1 – August 1), as proposed. The Applicants shall endeavor to refrain from construction activities within Priority Habitat from April 15 to August 1.
- g. Within thirty (30) days of the completion of work, or as otherwise approved by the Division, the Applicants shall submit a compliance report to the Division and Commission documenting the completion of the project and compliance with all conditions herein, including a summary of construction timelines and photographs.



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- h. Work within 450 feet of vernal pools is prohibited between March 1 and June 1. The Applicants shall have a qualified Environmental Monitor on site to monitor vehicular traffic during this Time of Year restriction, should a suitable alternative route not be available.

PART II: CONDITIONS SPECIFIC TO

Phase I: Eversource Underground Transmission Line

- a. An independent Environmental Monitor, hired by the Conservation Commission and paid for by the Applicant, shall be provided to oversee the following activities:
1. Review the erosion control barrier following installation but prior to any land disturbance and each year prior to vernal pool species migration. Conduct spot inspections of vernal pools during construction and/or review reports provided by the Applicant's environmental monitor to ensure no negative impact to vernal pools during construction.
 2. Be on site during initial tree removal and invasive species clearing activities, within the limit of work.
 3. Review and ensure appropriate reporting of all activities associated with construction scheduling, erosion control monitoring, compliance with the project's SWPPP, and environmental monitoring activities including ensuring adherence to time of year restrictions.
 4. Be on site during bridge platform installation and spot inspections during bridge construction.
 5. Be notified of all dewatering activities and be on site during dewatering in sensitive locations, i.e. whenever excavation is proposed within 50 feet of a wetland, or when extensive dewatering will be needed. Specific oversight locations will be determined with the contractor, prior to commencement of work.
 6. Review restoration/mitigation areas including being on site during the construction of the wetland replication area.
 7. Be on site to oversee excavation/construction activities over culverts and drainage structures.
 8. Be available to respond to emergency situations, should they arise.
- b. At least four weeks prior to any land disturbance, an Invasive Species Management Plan shall be developed and submitted to the Conservation Commission for review and approval. Said Management Plan shall involve removal of invasive species and revegetation with native species for a period of five (5) years from a minimum of 3.3 acres of land within the MBTA Right-of-Way, but outside the proposed limit of work, and shall focus efforts on improving wildlife habitat in areas identified through the Wildlife Habitat Evaluation and peer review thereof as being most impacted from proposed work. Following implementation, the Invasive Species Management Area shall be managed in accordance with Perpetual Condition b. contained within this Order.
- c. At least two weeks prior to any land disturbance, a Soil and Groundwater Management Plan (SGMP) prepared in conjunction with the selected contractor shall be submitted to the Conservation Commission for review and comment. The Applicant shall give due consideration to address comments received from the Commission that are needed to protect wetland resource areas functions and values. The SGMP will develop means and methods to manage soils and groundwater encountered during project construction activities including soil excavation, groundwater dewatering, and railroad tie and track removal. If conditions are encountered that suggest soil may require additional evaluation or special handling based on visual, olfactory, or field screening results, excavation activities in that area will immediately be stopped and Eversource, their Licensed Site Professional, and the Conservation Commission will be contacted immediately to evaluate the observations and recommend requirements for proper handling. The Commission shall be copied on all related correspondence.



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- d. At least two weeks prior to any land disturbance, a structural engineer and wildlife biologist shall inspect the culverts and drainage structures within the Project Site to determine whether they are structurally sound to (a) function hydrologically, (b) withstand the planned construction activities, and (c) evaluate their wildlife migration functions, and shall provide a report of the finding to the Commission. If any culverts do not meet these requirements or is damaged during construction, it shall be repaired or replaced with a culvert that meets current MA Stream Crossing Standards to the maximum extent practicable, as determined by the Commission or its Agent. Any recommended improvements to these structures, not included in this Notice, shall be required to submit a separate Notice of Intent and/or an Amendment to this Order to the Commission for further evaluation. Following completion of Phase I and Phase II a similar structural evaluation shall be conducted to confirm work did not affect culverts and drainage structures.
- e. At least three weeks prior to any land disturbance, a Project Compliance Manual that includes the requirements from compliance from the various permits for the Project, including this Order and Conditions herein, shall be submitted to the Conservation Commission for review to confirm that the requirements of this Order are accurately stated.
- f. At least two weeks prior to the start of Phase I, the Applicant shall provide a construction schedule detailing construction activities and sequencing. This shall be amended as necessary throughout construction. Weekly reports shall be submitted to the Commission that details work completed each week and anticipated work for the coming week, including identifying when work is located in areas of potential elevated levels of soil and groundwater contamination. These reports shall include anticipated dewatering activities so that oversight can be provided by the Commission or its Agent, if found necessary, and include the location of active stockpiles with confirmation that appropriate erosion control measures are being implemented.
- g. At least two weeks prior to the start of Phase I, the Applicant shall provide the final Stormwater Pollution Prevention Plan (SWPPP) to the Commission for review and approval. Any use of permanent infiltration BMPs for temporary construction-related stormwater management shall be specifically addressed in the SWPPP and protocol for removal of fine silt and sediment from these BMPs shall be conducted at the completion of Phase I. If a response is not received by the Conservation Commission within 10 days of receipt, the SWPPP shall be deemed approved. Any changes made to the SWPPP during the course of the project shall be submitted and approved by the Commission prior to implementation.
- h. Prior to land disturbance, the Applicant shall provide a signed illicit discharge statement.
- i. The Applicant shall ensure there is a qualified Environmental Monitor(s) on site at all times overseeing work that is subject to this Order. The Environmental Monitor(s) shall send weekly erosion control inspection reports and reports following any storm event of ½ inch of rain or greater, to the Conservation Commission.
- j. The Limit of Work/erosion control location shall be survey located in the field and certified by a Mass Registered Professional Land Surveyor, installed under the oversight of the Applicant's Environmental Monitor, and reviewed by the Commission and/or its Agent prior to commencement of any site work.
- k. Prior to any site disturbance, with the exception of the installation of the erosion control barrier, the Applicant shall schedule a pre-construction site visit with the Conservation Coordinator as least one week prior to commencement of work. At a minimum, those in attendance at this site visit should include the Applicant, construction supervisor, and environmental monitors involved in the project.



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- l. The Applicant's wildlife biologist or other qualified individual shall document the location of all important habitat features that will be removed (such as brush piles, snags, overhanging trees, logs within or near the water, large woody debris, etc.) to quantify the number of features removed and provide confirmation that work did not result in the loss of important wildlife habitat features. Brush, large woody debris, and logs shall be replaced within or near the water, generally in the location of where they were removed. Reports shall be provided to the Conservation Commission at least every six (6) months, for the life of the Order, documenting wildlife habitat removal and restoration efforts implemented, including monitoring of vernal pools.
- m. During initial vegetation removal, trunks shall be retained but cut as close to the ground as possible. Following installation and approval of erosion controls, stumps and roots may be grubbed, if necessary. Stumping and grubbing activities shall not adversely affect woody vegetation or soils outside the erosion control barrier. Logs, stumps, and other large woody debris in and/or overhanging the resource areas shall be left undisturbed to maximize food source and habitat.
- n. Tree/limb clearing shall be minimized to only that which is required to access the project site with equipment and to conduct the approved work. Equipment shall be chosen which minimizes required clearing to the maximum extent practicable. The Applicant shall retain as many limbs overhanging the limit of work as possible. Prior to tree felling, the Applicant shall walk the corridor with the Commission or its Agent to determine the extent of canopy that can be retained.
- o. Vegetation removed from the site shall be chipped directly into a truck and removed from the project site. Woody material for reuse on site for the creation of wildlife habitat features shall be identified and retained.
- p. The contractor shall provide detailed plans of the crane mat location and installation a minimum of one week prior to installation. All work and impacts associated with installation, removal, and stabilization of the crane areas shall be conducted in strict compliance with the Project Plans and Details and shall be reviewed and approved by the Commission and/or its Agent prior to installation and shall be installed under the supervision of the independent Environmental Monitor.
- q. Dewatering activities shall be located as far as possible from wetland resource areas and shall be prohibited from discharging to Bordering Vegetated Wetlands, Isolated Vegetated Wetlands, Land Under Water Bodies and Waterways, or within the inner Riverfront Area. Dewatering may only occur in other upland resource areas provided adequate control measures are implemented and locations are identified by the contractor and review and approved by the Commission and/or its agent prior to implementation.
- r. The Conservation Commission and their representative shall be notified at least three (3) business days in advance of the removal of the crane mats at Bridge 127.
- s. Other than the grading of minor amounts of soil within the immediate vicinity of the Hudson/Sudbury town boundary, no soil excavated from Hudson may be used in Sudbury. The Sudbury Conservation Commission shall be copied if the Hudson Conservation Commission is notified of any remedial activities or changes to the work plans required due to the potential presence of PFAS in jurisdictional areas in Hudson.
- t. The Applicant shall ensure that any reuse of on-site soils shall not result in the degradation of soil or groundwater in the area.



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- u. Stockpiling of materials within the ROW shall be limited in size and duration (one-week maximum) and shall be located as far from sensitive areas as possible. Soil stockpiles shall be covered with tarp or plastic sheet and surrounded by erosion controls. Excess soil not reused within the Project site shall be stockpiled outside the ROW and wetland jurisdiction. Weekly reports prepared by the Environmental Monitors throughout construction will identify the locations of active stockpiles and will confirm that the appropriate erosion control measures are being implemented
- v. Additional test pits/borings at the location of each proposed "area of increase infiltration" shall be conducted during construction to verify soil conditions, infiltration rates, and groundwater levels, and provided to the Conservation Commission for review. At a minimum, soil tests shall be conducted in the vicinity of Stations 502+00, 511+00, 570+00, and 579+00. A report of the findings, comparison with expectations, and a statement on the appropriateness of the design shall be provided to the Conservation Commission for review. If findings are not consistent with the assumptions made for the stormwater management design, revisions to the design and approval of modifications to the Plan may be required.
- w. Infiltration basins shall not be used as sediment basins during construction. Additional erosion controls shall be installed to protect infiltration basins from sedimentation until contributing areas are stable.
- x. The Conservation Commission and/or their agent shall inspect all permanent stormwater infiltration BMPs for acceptance prior to construction demobilization to a new location within the ROW.
- y. Mitigation, and restoration efforts within the limit of work, shall be implemented during the first growing season following commencement of work. Written reports shall be submitted by December 1 of each year the Order is active that details mitigation efforts that have been implemented, success of implementation, and anticipated activities the following growing season. Mitigation and Restoration areas shall be deemed substantially in compliance when there is a minimum of 90% cover with native species and free of invasive species.
- z. Areas adjacent to vernal pools shall be revegetated immediately following the completion of all necessary grading in these area, and the revegetation in these areas shall be monitored so erosion controls can be removed as soon as field conditions allow. Mitigation plantings around the vernal pool margins shall be monitored for successful establishment for a minimum of two growing seasons and annual reports documenting establishment shall be submitted to the Commission.
- aa. Prior to planting, the Applicant's Environmental Monitor shall inspect, approve, and provide photo documentation of all plant stock. Any species substitutions must be provided to the Commission, in writing, including a justification for substitution, for review and approval prior to implementation.
- bb. The wetland replication area shall be constructed during vegetation removal in the vicinity of the replication area and prior to the construction of structures in that vicinity.
- cc. All plantings must survive for at least two growing seasons or be replaced at the expense of the Applicant.
- dd. Loam borrow brought to the site to stabilize the work area after completing Phase 1 shall be sourced appropriately. Use of impacted soils (from contamination or invasive seed) shall be prohibited.
- ee. No spoils of construction, construction material, or equipment shall be stored, placed or operated in the wetland resource areas or the wetland buffer zone except as may be permitted by this Order for



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work in the riverfront and upland resource area. These activities may not occur within the bordering vegetated wetland or within bordering land subject to flooding.

- ff. In any part of the Project work limits within 200 feet of a road crossing where the MBTA ROW crosses a Zone II for the Sudbury Water District supply wells, if a clay layer is encountered in the excavation for the transmission line and the excavation will extend below the bottom of the clay layer, the clay shall be stockpiled and reused to backfill and line the excavation before the transmission line duct bank is placed in that location.
- gg. There shall be no disturbance beyond the limits of activities permitted as part of this Order.
- hh. Every effort shall be made to restore disturbed area with a similar soil composition to that which is was removed.
- ii. No deicing products shall be used within the project site. Snow may be stockpiled within the limit of work only or shall be removed from the site to an appropriate facility outside wetlands resource areas.
- jj. Should Phase II not commence within three years of completion of Phase I, the Applicant shall file an Amendment to bring the stormwater management into full compliance with the Town of Sudbury Stormwater Regulations.
- kk. All wildlife habitat replication and restoration shall be completed during the first growing season of Phase I to avoid a significant adverse project/site-specific impact or an adverse cumulative impact on wildlife for more than two growing seasons. Should Phase II not commence within two years of completion of Phase I, erosion controls or other methods of demarcation shall be implemented to prevent further alteration of restored areas. No important wildlife habitat features restored during Phase I shall be removed during Phase II.

PART II CONDITIONS SPECIFIC TO
Phase II: DCR Mass Central Rail Trail

- a. Prior to commencement of Phase II, erosion controls shall be inspected. Erosion controls shall be removed from all areas that have stabilized from Phase I and will not be re-disturbed as part of Phase II. All degraded erosion controls shall be replaced. Areas requiring re-installation of erosion controls for Phase II shall be installed at the limit of work for Phase II.
- b. At least two weeks prior to the start of Phase II, the Applicant shall provide a construction schedule detailing construction activities and sequencing. This shall be amended as necessary throughout construction. Weekly reports shall be submitted to the Commission that details work completed each week and anticipated work for the coming week.
- c. At least two weeks prior to the start of Phase II, the Applicant shall provide the final Stormwater Pollution Prevention Plan (SWPPP) to the Commission for review and approval. Any changes made to the SWPPP during the course of the project shall be submitted and approved by the Commission prior to implementation. If a response is not received by the Conservation Commission within 10 days of receipt, the SWPPP shall be deemed approved.
- d. The Applicant shall ensure there is a qualified Environmental Monitor(s) on site at all times overseeing work that is subject to this Order. The Environmental Monitor(s) shall send weekly erosion control reports and reports following any storm event of ½ inch of rain or greater, to the Conservation Commission.



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- e. The Phase II limit of work/erosion control location shall be located in the field with survey grade equipment that produces sub-foot accuracy installed under the oversight of the Applicant's Environmental Monitor, and reviewed by the Commission and/or its Agent prior to commencement of any site work.
- f. Prior to any site disturbance, with the exception of the installation of the erosion control barrier, the Applicant shall schedule a pre-construction site visit with the Conservation Coordinator as least one week prior to commencement of work. At a minimum, those in attendance at this site visit should include the Applicant, construction supervisor, and environmental monitors involved in the project.
- g. There shall be no disturbance beyond the limits of activities permitted as part of this Order.
- h. Other than road crossings and pullouts, the paved multi-use trail shall not exceed ten (10) feet in width. Any pavement that exceed 10 feet in width shall be required to be removed.
- i. Stockpiling of materials shall be within the Phase II limit of work and shall be located as far from sensitive areas as possible.
- j. No spoils of construction, construction material, or equipment shall be stored, placed or operated in the wetland resource areas or the wetland buffer zone except as may be permitted by this Order for work in the riverfront and upland resource area. These activities may not occur within the bordering vegetated wetland or within bordering land subject to flooding.
- k. The corridor shall be maintained in compliance with the MassCentral Rail Trail (MCRT) – Wayside Section Stormwater Management System Operation and Maintenance Plan (O&M) and the Long Term Pollution Prevention Plan.
- l. Japanese knotweed shall be managed within the limit of work. Chemical treatment, via spot treatment, may be permitted as a last measure to manage knotweed. Herbicide use shall be prohibited within any certified, certifiable, or presumed vernal pool, vegetated wetlands or waterways.
- m. DCR shall notify the Commission in advance if herbicides are to be used for vegetation control within jurisdictional areas, indicating the target control species, the type(s) of herbicide to be used, the proposed application rate, and the on-going maintenance plan for the targeted area for review and approval. This Condition is ongoing and does not expire with the expiration of the Order of Conditions or the issuance of a Certificate of Compliance.

PART III: EROSION, SEDIMENTATION, STABILIZATION CONDITIONS
For Phase I and Phase II

- a. Erosion control shall be installed per the approved plan and maintained as necessary to prevent erosion and sedimentation from entering the resource areas. It is the Applicants' responsibility to take appropriate measures to control sedimentation into the wetland resource areas.
- b. Perimeter erosion controls shall be installed along the down gradient side of disturbed areas where topography is directed towards other portions of the existing/proposed trail work area.
- c. Stabilization of slopes shall be accomplished as soon as possible. Biodegradable jute netting shall be properly anchored in place, secured with non-chemically treated biodegradable materials. Should non-biodegradable fasteners be needed, with prior approval by the Commission and/or its agent, the



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Applicants may use non-biodegradable fasteners with the condition that the Applicants shall provide confirmation that all fasteners have been removed once the area is deemed fully stabilized by the Commission and/or its representative.

- d. Appropriate netting shall be installed under the bridge 128 during bridge work to prevent debris from entering the stream. The Applicants shall contact the Conservation Office once installed for review prior to commencement of bridge work.
- e. Following Land Under Water Restoration, erosion controls shall be removed once fully stabilized and the Conservation Commission or its representative has confirmed stabilization, to protect the long-term water quality of the adjacent wetland waterways.
- f. During Phase I, Eversource shall be responsible for installing and maintaining erosion controls within the project site. Following completion of Phase I, Eversource shall continue to maintain erosion controls until DCR commences Phase II, provided that Eversource shall remove erosion controls from areas stabilized at the completion of Phase I, as confirmed by the Commission or its agent. Every effort shall be made during Phase I to stabilize areas within vernal pool habitat immediately following final grade.
- g. During Phase II, DCR shall be responsible for installing and maintaining erosion controls on the project site. Following completion of Phase II and inspection by the Commission or its Agent, DCR shall be responsible to remove all erosion control barriers.
- h. Should the time between Phase I and Phase II exceed one year, the site shall be assessed every six months, in the presence of the Commission or its Agent, to determine if erosion controls containing areas that are stable which will not be destabilized during Phase II, can be removed.

PART IV: PLAN MODIFICATIONS:

- a. Any changes during construction due to soil types found or other conditions discovered during construction shall require immediate notification of the Conservation Commission for a determination if the changes require revisions to this Order or the filing of a new Notice of Intent. Any modifications or revisions to the plans referenced, or any new plans, must be submitted to the Commission for review and a determination as to whether a new Notice of Intent is required. If this procedure is not followed, this Order may not be amended. No additional work not specifically allowed by this Order shall be accomplished on the site without the approval of the Sudbury Conservation Commission and the appropriate new filings or amendment requests are approved. Amendment procedures as described in the Wetlands Protection Act, the regulations, and the Department of Environmental Protection's Wetlands Program Policies shall be followed.
- b. No additional new construction or disturbance of a wetland resource area, as defined in the Wetlands Protection Act and its regulations, or within the 100' wetland resource area buffer zone, not covered by this Order of Conditions, shall be permitted on this site until a determination has been made by the Commission as to whether a new Notice of Intent is required, and the new work or disturbance is incorporated into a new or amended Order of Conditions. An adequate stockpile of unused erosion controls shall be available at or near the site.
- c. Should the Sudbury Conservation Commission become aware of work on site being accomplished that was not approved as part of the Order of Conditions or subsequent amendments, the Commission reserves the right to require a new Notice of Intent. The plan filed with the new Notice of Intent must be based on an interim as-built plan prepared by a registered engineer. The new Notice must provide



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a detailed description of the discrepancies between the approved plan and the site conditions to date. The Commission reserves the right to require as part of the interim as-built plan, but not be limited to requiring, new topography survey, new drainage calculations, and details or all disturbance within the wetland resource and the 100' wetland buffer zone.

PART V: CERTIFICATE OF COMPLIANCE REQUIREMENTS:

- a. Following completion of Phase I, Eversource shall request a Partial Certificate of Compliance. This Request shall be accompanied by as-built plans, stamped by a professional land surveyor or other qualified professional, detailing all elements of Phase I including all restoration plantings, wetlands replication, all stormwater management elements, post construction structural report, provide a cut/fill analysis for the project by stream reach and elevations to confirm adequate compensatory storage is provided and affidavit from all site professionals that all aspects of this Order were adhered to, along with reports associated with mitigation activities. Any deviations from the approved plans shall be specifically called out on the as-built plan. A report on the restoration/mitigation plantings and invasive species management program shall be provided that includes an assessment of the plant community composition in the context of the wildlife habitat restoration. Vegetation outside the limit of work shall also be evaluated to confirm no negative impacts occurred outside the limit of work.
- b. Following completion of Phase II and full stabilization of the site, a full Certificate of Compliance shall be requested, accompanied by an as-built plan of Phase II elements overlain the Phase I as-built plan, final report on restoration/mitigation efforts, and post construction structural report. Any deviations from the approved plans shall be specifically called out on the as-built plan.

PART VI: CONDITIONS IN PERPETUITY:

The following conditions shall be recorded at the Registry of Deeds as part of this Order of Conditions and shall continue in perpetuity and be included on the Certificate of Compliance. Owners of this property shall be made aware of restrictions in perpetuity on the activities allowed on this property. If the property owner has good cause to request an amendment to the conditions in perpetuity, he/she shall have the right to make a request for an amendment to the issuing authority. If, in the judgment of the issuing authority, the proposed activities will not detrimentally impact the wetland resource area functions, this Order, or the Certificate of Compliance shall be amended.

- a. Wetlands are located on this property that are subject of the Massachusetts Protection Act (Chapter 131, section 40) and the Sudbury Wetlands Administration Bylaw. Any work within a wetland resource area (including the 200' riverfront area) or within 100' of a wetland resource area requires review and approval by the Sudbury Conservation Commission prior to the commencement of such work.
- b. To ensure the environmental integrity of the site is maintained to offset the permitted activity, after the initial management period of five (5) years, the 3.3-acre invasive species management areas shall be monitored annually for the presence of invasive species and annual reports shall be submitted to the Conservation Office. Any areas found to contain concentrations of invasive species and/or should the plant community within the management area exceed 10% invasive species, the management area shall be managed by DCR in accordance with a program developed in consultation with the Commission's representative.
- c. Fertilizers shall not be used within jurisdictional areas.



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- d. No pesticides or herbicides are allowed within a wetland resource area, including the 200-foot riverfront area, or within 100-foot of a wetland resource area (the adjacent upland resource area under the local bylaw), except for spot treatment of Japanese knotweed, without additional review by the Conservation Commission.
- e. Underground storage of petroleum products is prohibited within a wetland resource area and within the 100' buffer zone of a wetland resource area.
- f. No coal tar-based sealants may be applied to any area draining into the upland or wetland resource areas of the property.
- g. All components of the stormwater management system shall be maintained in accordance with the MassCentral Rail Trail (MCRT) – Wayside Section Stormwater Management System Operation and Maintenance Plan (O&M) and the Long Term Pollution Prevention Plan, and as necessary to function as designed. Inspection checklists shall be maintained and be made available for review by the Conservation Commission or staff on request.
- h. There shall be no snow removal activities or de-icing products used on site, except as required for emergency situations.
- i. The five-foot maintained area over the transmission line, outside the two-foot shoulders that will be regularly maintained, may be mown once per year, before April 1 or after November 1. Mowing outside this timeframe may be allowed in accordance with the Final Corridor Management Plan, with the objective of allowing vegetation to go to seed and propagate.
- j. When maintaining the rail trail, no debris, including natural debris such as leaves, shall be blown or swept into areas within 25 feet of vernal pools. Signage or other means of demarcating this management requirement shall be provided to and approved by the Conservation Commission prior to issuance of a Certificate of Compliance.
- k. The culverts and drainage structures shall be inspected at least annually and cleared of debris as needed. If culverts become damaged or no longer function as required, they shall be repaired or replaced according to most current MA Stream Crossing Standards. This work will require review and approval by the Conservation Commission under a Notice of Intent.
- l. If herbicide use by DCR is permitted under a future Vegetation Management Plan, as approved by the Department of Agricultural Resources, herbicide use shall be prohibited within any certified or certifiable vernal pool, vegetated wetlands or waterways. Invasive species removal by DCR will be by mechanical means when possible and spot treatment of herbicide by a licensed herbicide applicator when other approaches are ineffective. DCR shall notify the Commission in advance, if herbicides are to be used within wetland jurisdictional areas, indicating the target control species, the type(s) of herbicide to be used, and the on-going maintenance plan for the targeted area.
- m. All trail amenities, such as benches and kiosks, shall be located outside wetland jurisdictional areas, except as shown on the approved plans.

APPENDIX B

ERIS Database Report



DATABASE REPORT

Project Property: *Underground Transmission Line
Middlesex County
Sudbury/Hudson MA 01776*

Project No: *ENG20-0498*

Report Type: *Database Report*

Order No: *20302700358*

Requested by: *Weston & Sampson*

Date Completed: *October 28, 2020*

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

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Executive Summary

Property Information:

Project Property: *Underground Transmission Line
Middlesex County Sudbury/Hudson MA 01776*

Project No: *ENG20-0498*

Coordinates:

Latitude: *42.380899*
Longitude: *-71.476286*
UTM Northing: *4,695,038.82*
UTM Easting: *296,141.55*
UTM Zone: *19T*

Elevation: *194 FT*

Order Information:

Order No: *20302700358*
Date Requested: *October 27, 2020*
Requested by: *Weston & Sampson*
Report Type: *Database Report*

Historicals/Products:

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
FRP	Y	0.25	0	0	0	-	-	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	1	1	-	2
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	2	1	0	-	3
CERCLIS	Y	0.5	0	2	2	1	-	5
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	2	1	0	-	3
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	1	-	1
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	3	4	-	-	7
RCRA CESQG	Y	0.25	0	12	7	-	-	19
RCRA NON GEN	Y	0.25	0	15	9	-	-	24
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
RELEASE	Y	1	0	14	26	60	59	159
DELISTED REL	Y	1	0	0	0	0	1	1
SWF/LF	Y	0.5	0	0	0	3	-	3
LST	Y	0.5	0	3	3	15	-	21
LUST	Y	0.5	0	4	4	15	-	23
LAST	Y	0.5	0	1	4	5	-	10
DELISTED LST	Y	0.5	0	0	0	0	-	0
HIST LUST	Y	0.5	0	3	1	6	-	10
HIST LAST	Y	0.5	0	0	1	1	-	2
UST	Y	0.25	0	11	5	-	-	16
AST	Y	0.25	0	2	2	-	-	4
DELISTED STORAGE TANK	Y	0.25	0	0	0	-	-	0
AUL	Y	0.5	0	1	1	4	-	6
BROWNFIELDS COV	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	1	1	2	-	4
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County	No County standard environmental record sources available for this State.							
<u>Additional Environmental Records</u>								
Federal								
PFAS NPL	Y	0.5	0	0	0	0	-	0
FINDS/FRS	Y	PO	0	8	-	-	-	8
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	1	-	-	-	1
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	1	0	0	-	1
State								
SPILLS	Y	0.125	0	15	-	-	-	15
HIS SPILLS	Y	0.125	0	2	-	-	-	2
PFAS	Y	0.5	0	0	0	0	-	0
OIL & HAZ MAT	Y	0.25	0	1	2	-	-	3
GEN	Y	0.125	0	21	-	-	-	21
ASBESTOS PROJECT	Y	0.125	0	44	-	-	-	44

Tribal *No Tribal additional environmental record sources available for this State.*

County *No County additional environmental record sources available for this State.*

Total: 0 169 75 114 60 418

* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	SPILLS	NO LOCATION AID	PARMENTER RD AND WHITE POND RD HUDSON MA 01749-0000	NW	0.11 / 600.75	-5	85
2	RELEASE	NO LOCATION AID	161 DUTTON RD SUDBURY MA <i>RTN:</i> 3-0020880 <i>Current Status:</i> RAO	SE	0.64 / 3,384.85	-11	86
3	RELEASE	ABANDONED HOUSE	1073 CONCORD RD MARLBOROUGH MA <i>RTN:</i> 2-0018760 <i>Current Status:</i> RAO	W	0.76 / 4,004.63	62	88
4	UST	WVJV-TV TRANSMITTER SITE	111 PARMENTER RD HUDSON MA 01749 <i>Facility ID:</i> 9936 <i>Tank ID / Status / Status Date:</i> 1 Tank Removed 19-Mar-1990	WNW	0.23 / 1,228.11	30	90
5	RELEASE	BOYD COATING RESEARCH CO	51 PARMENTER RD HUDSON MA <i>RTN:</i> 2-0000248 <i>Current Status:</i> RAO	WNW	0.13 / 694.02	16	91
5	RCRA SQG	PRECISION COATING CO INC	51 PARMENTER RD HUDSON MA 01749 <i>EPA Handler ID:</i> MAD043399906	WNW	0.13 / 694.02	16	92
5	RELEASE	FMR BOYD COATINGS RESEARCH CO	51 PARMENTER ROAD HUDSON MA <i>RTN:</i> 2-0020439 <i>Current Status:</i> TIER1	WNW	0.13 / 694.02	16	98
5	OIL & HAZ MAT	FMR BOYD COATINGS RESEARCH CO	51 PARMENTER ROAD HUDSON MA	WNW	0.13 / 694.02	16	107
6	RELEASE	MA DFS FIREFIGHTING ACADEMY	664 SUDBURY RD STOW MA <i>RTN:</i> 2-0021045 <i>Current Status:</i> UNCLSS	N	0.82 / 4,341.24	6	108
7	GEN	LINCOLN TOOL & MACHINE CORP	43 PARMENTER RD HUDSON MA 01749	WNW	0.09 / 462.02	14	111
7	RCRA CESQG	LINCOLN TOOL & MACHINE CORP.	43 PARMENTER RD HUDSON MA 01749 <i>EPA Handler ID:</i> MAR000545384	WNW	0.09 / 462.02	14	111
8	RELEASE	STATE FIRE ACADEMY STOW	1 STATE ROAD STOW MA	NNW	0.75 / 3,984.24	2	113

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
9	UST	SILVER KING BROADCASTING OF MA	71 PARMENTER RD HUDSON MA 01749 <i>RTN:</i> 2-0019241 <i>Current Status:</i> PSNC	WNW	0.04 / 207.98	14	114
			<i>Facility ID:</i> 19417 <i>Tank ID Status Status Date:</i> 1 Tank Removed 10-Jan-1990				
10	CERCLIS	SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 017762640 <i>Site EPA ID:</i> MAN000103316	E	0.06 / 323.49	1	115
10	CERCLIS NFRAP	SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 17762640 <i>Site EPA ID:</i> MAN000103316	E	0.06 / 323.49	1	117
10	RELEASE	FORMER ROD & GUN CLUB	33 BULKLEY RD SUDBURY MA <i>RTN:</i> 3-0024573 <i>Current Status:</i> RAO	E	0.06 / 323.49	1	118
10	SEMS ARCHIVE	SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 01776-2640 <i>EPA ID:</i> MAN000103316	E	0.06 / 323.49	1	119
10	SPILLS	FORMER ROD & GUN CLUB	33 BULKLEY RD SUDBURY MA 01776-0000	E	0.06 / 323.49	1	120
11	LUST	CONTINENTAL CITGO	706 MAIN ST HUDSON MA <i>RTN:</i> 2-0015576	NW	0.35 / 1,834.46	7	121
11	LUST	FORMER CITGO	706 MAIN ST HUDSON MA <i>RTN:</i> 2-0017095	NW	0.35 / 1,834.46	7	135
11	RELEASE	LAKE BOON SERVICE STATION	706 MAIN ST HUDSON MA <i>RTN:</i> 2-0000261 <i>Current Status:</i> DEPND5	NW	0.35 / 1,834.46	7	138
11	RELEASE	CITGO STATION	706 MAIN ST HUDSON MA <i>RTN:</i> 2-0014026 <i>Current Status:</i> RAO	NW	0.35 / 1,834.46	7	139
11	LST	FORMER CITGO	706 MAIN ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc:</i> 2-0017095 9/18/2008 Release Tracking Number Closed	NW	0.35 / 1,834.46	7	141
11	LST	CONTINENTAL CITGO	706 MAIN ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc:</i> 2-0015576 6/1/2010 Remedy Operation Status	NW	0.35 / 1,834.46	7	142
11	RELEASE	CONTINENTAL CITGO	706 MAIN ST HUDSON MA	NW	0.35 / 1,834.46	7	144

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
11	RELEASE	FORMER CITGO	RTN: 2-0015576 Current Status: REMOPS 706 MAIN ST HUDSON MA	NW	0.35 / 1,834.46	7	157
12	RCRA SQG	ANVER CORPORATION	RTN: 2-0017095 Current Status: RAONR 36 PARMENTER RD HUDSON MA 01749 EPA Handler ID: MAC300096161	WNW	0.09 / 486.70	10	161
12	GEN	ANVER CORPORATION	36 PARMENTER RD HUDSON MA 01749	WNW	0.09 / 486.70	10	164
13	RELEASE	GELPKE RESIDENCE	53 LAKESIDE AVE HUDSON MA RTN: 2-0015157 Current Status: RAO	NW	0.54 / 2,837.61	14	164
13	RELEASE	GELPKE RESIDENCE	53 LAKESIDE AVE HUDSON MA RTN: 2-0015220 Current Status: RAONR	NW	0.54 / 2,837.61	14	168
14	LAST	KLAUK RESIDENCE	40 LAKESIDE AVE HUDSON MA RTN: 2-0015407	NW	0.46 / 2,437.59	13	171
14	RELEASE	KLAUK RESIDENCE	40 LAKESIDE AVE HUDSON MA RTN: 2-0015407 Current Status: RAO	NW	0.46 / 2,437.59	13	175
15	RELEASE	JAMES GORIN REALTY TRUST	577 MAIN ST HUDSON MA RTN: 2-0000204 Current Status: WCSPRM	WNW	0.12 / 652.93	9	179
15	RCRA NON GEN	ATLANTIC BUSINESS FORMS	577 MAIN ST HUDSON MA 01749 EPA Handler ID: MAD004461885	WNW	0.12 / 652.93	9	180
15	RCRA NON GEN	INSTRUMENTATION LAB INC	577 MAIN ST HUDSON MA 01749 EPA Handler ID: MAD982200099	WNW	0.12 / 652.93	9	181
15	RCRA SQG	CENTERLINE TECHNOLOGIES LLC	577 MAIN ST HUDSON MA 01749 EPA Handler ID: MAC300005709	WNW	0.12 / 652.93	9	182
15	SPILLS	JAMES GORIN REALTY TRUST	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	9	184
15	GEN	ADAPTIVE WIRELESS SOLUTIONS	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	9	185

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
15	GEN	CENTERLINE TECHNOLOGIES LLC	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	9	186
15	GEN	JET MAIL SERVICES	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	9	186
16	RCRA CESQG	HUDSON POLY BAG INC	578 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAR000577213</i>	WNW	0.18 / 964.82	20	186
17	RELEASE	SOUTH SIDE MAIN ST WEST OF PARMENTER RD	571 MAIN ST HUDSON MA <i>RTN: 2-0010785 Current Status: RAO</i>	WNW	0.13 / 688.89	15	187
17	RCRA NON GEN	LUND PRECISION PRODUCTS INC	571 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAD981062631</i>	WNW	0.13 / 688.89	15	188
18	RELEASE	COMMERCIAL BUILDING	569 MAIN ST HUDSON MA <i>RTN: 2-0017024 Current Status: RAO</i>	WNW	0.07 / 394.11	14	194
18	SPILLS	COMMERCIAL BUILDING	569 MAIN ST HUDSON MA 01749-0000	WNW	0.07 / 394.11	14	196
18	RCRA CESQG	MACH MACHINE INC	569 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAD985297415</i>	WNW	0.07 / 394.11	14	198
18	GEN	MACH MACHINE INC	569 MAIN ST HUDSON MA 01749	WNW	0.07 / 394.11	14	202
18	ASBESTOS PROJECT	COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	14	202
18	ASBESTOS PROJECT	COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	14	203
18	ASBESTOS PROJECT	COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	14	203
19	AUL	NO LOCATION AID	17 BRNT DRIVE HUDSON MA	WNW	0.23 / 1,238.51	56	203

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
19	RELEASE	NO LOCATION AID	17 BRNT DRIVE HUDSON MA <i>RTN: 2-0017907</i> <i>Current Status: RAO</i>	WNW	0.23 / 1,238.51	56	206
19	RCRA NON GEN	NORTHEAST GREAT DANE	17 BRENT DR HUDSON MA 01749 <i>EPA Handler ID: MAD079525242</i>	WNW	0.23 / 1,238.51	56	209
19	BROWNFIELDS	Blank Industrial Realty	17 Brent Drive Hudson MA	WNW	0.23 / 1,238.51	56	211
20	RELEASE	HYPERTRONICS - HYPERTAC	16 BRENT DR. HUDSON MA <i>RTN: 2-0018206</i> <i>Current Status: RAO</i>	WNW	0.23 / 1,214.14	55	211
20	RCRA CESQG	HYPERTRONICS CORP	16 BRENT DR HUDSON MA 01749 <i>EPA Handler ID: MAD980915813</i>	WNW	0.23 / 1,214.14	55	213
21	RELEASE	RESIDENCE	150 NORTH SHORE DR STOW MA <i>RTN: 2-0010012</i> <i>Current Status: RAO</i>	NW	0.55 / 2,879.18	15	217
22	HIS SPILLS	ENGINE CLEANING	1 KANE INDUSTRIAL PARK HUDSON MA <i>Spill ID Case Closed: C92-0122 YES</i>	WNW	0.06 / 312.01	10	219
22	HIS SPILLS	WASTE OIL AND LUBRICANTS	1 KANE INDUSTRIAL DR. HUDSON MA <i>Spill ID Case Closed: C93-0030 YES</i>	WNW	0.06 / 312.01	10	220
23	RCRA NON GEN	RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAD041701699</i>	WNW	0.01 / 31.29	15	220
23	FINDS/FRS	RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 017490000	WNW	0.01 / 31.29	15	221
23	ICIS	RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 01749	WNW	0.01 / 31.29	15	222
24	RCRA CESQG	A&S DELIVERY SERVICE INC	6 KANE INDUSTRIAL DR HUDSON MA 01749 <i>EPA Handler ID: MAR000504878</i>	WNW	0.10 / 521.83	6	222
24	GEN	A&S DELIVERY SERVICE INC	6 KANE INDUSTRIAL DR HUDSON MA 01749	WNW	0.10 / 521.83	6	224

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
25	GEN	JEKTEK SCREENPRINTING & EMBROIDERY LLC	5 KANE INDUSTRIAL DR HUDSON MA 01749	WNW	0.12 / 649.78	8	224
26	RELEASE	CHESTNUT STREET PFAS	308 CHESTNUT STREET HUDSON MA <i>RTN:</i> 2-0020923 <i>Current Status:</i> UNCLSS	W	0.83 / 4,393.39	87	224
27	CERCLIS	A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 017492906 <i>Site EPA ID:</i> MA0001296904	WNW	0.13 / 673.05	7	227
27	CERCLIS NFRAP	A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 17492906 <i>Site EPA ID:</i> MA0001296904	WNW	0.13 / 673.05	7	228
27	SEMS ARCHIVE	A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 01749-2906 <i>EPA ID:</i> MA0001296904	WNW	0.13 / 673.05	7	229
28	GEN	R&L AUTOMOTIVE	561 MAIN ST HUDSON MA 01749	WNW	0.05 / 269.50	17	230
29	ASBESTOS PROJECT	C/O FLAVIO BRITO	66 JARMAN RD SUDBURY MA	ESE	0.05 / 265.76	-34	230
30	UST	E H PERKINS CONSTRUCTION INC	560 MAIN ST HUDSON MA 01749 <i>Facility ID:</i> 9946 <i>Tank ID Status Status Date:</i> 3 Tank Removed 24-Jan-1999, 2 Tank Removed 24-Jan-1999, 1 Tank Removed 24-Jan-1999	WNW	0.07 / 355.90	16	230
30	RELEASE	M&M DRILLING KANE PERKINS	560 MAIN ST HUDSON MA <i>RTN:</i> 2-0000275 <i>Current Status:</i> RAO	WNW	0.07 / 355.90	16	232
30	RCRA NON GEN	KORO CORP	560 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAD001408624	WNW	0.07 / 355.90	16	233
30	RCRA CESQG	KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAD981209166	WNW	0.07 / 355.90	16	234
30	RCRA CESQG	KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAD981897077	WNW	0.07 / 355.90	16	236
30	SPILLS	M&M DRILLING KANE PERKINS	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	16	240

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
30	GEN	KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	16	242
30	GEN	GRAND IMAGE	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	16	242
30	GEN	PAO CORP	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	16	242
30	RCRA CESQG	PAO CORP	560 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAR000554840	WNW	0.07 / 355.90	16	242
30	ASBESTOS PROJECT	E H PERKINS CONSTRUCTION	560 MAIN ST HUDSON MA	WNW	0.07 / 355.90	16	244
31	LAST	ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA <i>RTN:</i> 2-0000068	WNW	0.08 / 446.08	15	244
31	RELEASE	HUDSON MAIN 555 LLC	555 MAIN ST HUDSON MA <i>RTN:</i> 2-0016560 <i>Current Status:</i> RAONR	WNW	0.08 / 446.08	15	266
31	RCRA NON GEN	LOWFIELD REALTY GROUP 555 MAIN HUDSON LL	555 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAC300013851	WNW	0.08 / 446.08	15	270
31	RCRA NON GEN	ARROW AUTOMOTIVE IND	555 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAD001062942	WNW	0.08 / 446.08	15	271
31	RCRA NON GEN	RR DONNELLY & SONS CO	555 MAIN ST HUDSON MA 01749 <i>EPA Handler ID:</i> MAD121006241	WNW	0.08 / 446.08	15	272
31	SPILLS	ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA 01749-0000	WNW	0.08 / 446.08	15	280
31	SPILLS	HUDSON MAIN 555 LLC	555 MAIN ST HUDSON MA 01749-0000	WNW	0.08 / 446.08	15	292

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
31	LUST	ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA <i>RTN: 2-0000068</i>	WNW	0.08 / 446.08	15	296
31	RELEASE	ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA <i>RTN: 2-0000068</i> <i>Current Status: RAO</i>	WNW	0.08 / 446.08	15	318
31	BROWNFIELDS	Arrow Automotive Ind Inc	555 Main St Hudson MA	WNW	0.08 / 446.08	15	340
32	RELEASE	KANE INDUSTRIAL PARK	15 KANE INDUSTRIAL DR HUDSON MA <i>RTN: 2-0000515</i> <i>Current Status: DEPND5</i>	WNW	0.23 / 1,236.50	18	340
32	RCRA SQG	ALTERNATE FINISHING INC	15 KANE INDUSTRIAL DR HUDSON MA 01749 <i>EPA Handler ID: MAR000505123</i>	WNW	0.23 / 1,236.50	18	341
33	RCRA NON GEN	SANDOZ COLORS & CHEMICALS	16 KANE INDUSTRIAL DR HUDSON MA 01740 <i>EPA Handler ID: MAD075360602</i>	WNW	0.24 / 1,245.09	18	343
34	RELEASE	BARTON ROAD NEIGHBORHOOD	220 AND 216 BARTON ROAD STOW MA <i>RTN: 2-0020337</i> <i>Current Status: TIER1D</i>	NW	0.52 / 2,723.67	8	344
35	LAST	RENTAL PROPERTY	63 BROOK ST HUDSON MA <i>RTN: 2-0013064</i>	WNW	0.45 / 2,399.08	9	350
35	RELEASE	RENTAL PROPERTY	63 BROOK ST HUDSON MA <i>RTN: 2-0013064</i> <i>Current Status: RAO</i>	WNW	0.45 / 2,399.08	9	352
36	LAST	NO LOCATION AID	17 HOWELL ST SUDBURY MA <i>RTN: 3-0025370</i>	ESE	0.49 / 2,600.97	-18	354
36	RELEASE	NO LOCATION AID	17 HOWELL ST SUDBURY MA <i>RTN: 3-0025370</i> <i>Current Status: RAO</i>	ESE	0.49 / 2,600.97	-18	357
37	ASBESTOS PROJECT	SUDBURY WATER DEPARTMENT	1 JARMAN ROAD SUDBURY MA	ESE	0.05 / 289.13	-25	360
38	HIST LUST		578 BOSTON POST RD; RTE 20 SUDBURY MA <i>Spill ID Case Closed: N88-1159 YES</i>	ESE	0.48 / 2,539.93	-24	360

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
38	AUL	BARTLETTS GREENHOUSE	578 BOSTON POST RD SUDBURY MA	ESE	0.48 / 2,539.93	-24	361
38	RELEASE	BARTLETTS GREENHOUSE	578 BOSTON POST RD SUDBURY MA <i>RTN: 3-0003267</i> <i>Current Status: RAO</i>	ESE	0.48 / 2,539.93	-24	366
39	OIL & HAZ MAT	CHESTNUT STREET WELL	CHESTNUT STREET HUDSON MA	WNW	0.23 / 1,216.26	3	371
40	RELEASE	RESIDENTIAL COMMUNITY	200 BAY DRIVE SUDBURY MA <i>RTN: 3-0035104</i> <i>Current Status: PSNC</i>	ESE	0.23 / 1,227.62	-43	372
40	RCRA NON GEN	BEACON ROOFING SUPPLY	200 BAY DR SUDBURY MA 01776 <i>EPA Handler ID: MAR000527127</i>	ESE	0.23 / 1,227.62	-43	373
41	RELEASE	NO LOCATION AID	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0027243</i> <i>Current Status: TIERI</i>	ESE	0.39 / 2,042.35	-43	374
41	RELEASE	RAYTHEON EAST DRIVEWAY	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0017106</i> <i>Current Status: RAO</i>	ESE	0.39 / 2,042.35	-43	379
41	RELEASE	RAYTHEON COMPANY	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0003037</i> <i>Current Status: PENNFA</i>	ESE	0.39 / 2,042.35	-43	381
41	RCRA TSD	RAYTHEON COMPANY	528 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID: MAD001410539</i>	ESE	0.39 / 2,042.35	-43	384
42	ASBESTOS PROJECT	YLK REALTY TRUST	40 CHESTNUT STREET HUDSON MA	WNW	0.10 / 502.87	20	404
43	RELEASE	SUNRISE CLEANERS	523 BOSTON POST RD SUDBURY MA <i>RTN: 3-0015591</i> <i>Current Status: RAONR</i>	ESE	0.37 / 1,934.08	-48	405
43	RELEASE	SUNRISE CLEANERS	523 BOSTON POST RD SUDBURY MA <i>RTN: 3-0004339</i> <i>Current Status: RAO</i>	ESE	0.37 / 1,934.08	-48	410
44	LAST	RESIDENCE	47 MARLBOROUGH RD STOW MA <i>RTN: 2-0013499</i>	WNW	0.17 / 880.39	-3	427

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
44	RELEASE	RESIDENCE	47 MARLBOROUGH RD STOW MA <i>RTN:</i> 2-0013499 <i>Current Status:</i> RAO	WNW	0.17 / 880.39	-3	430
45	LUST	RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0015951	ESE	0.29 / 1,556.57	-59	434
45	LUST	RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0015872	ESE	0.29 / 1,556.57	-59	439
45	LST	RTE 20	475 BOSTON POST RD SUDBURY MA 01776-0000 <i>Site No Current Date Status Desc:</i> 3-0015872 3/3/1998 Response Action Outcome	ESE	0.29 / 1,556.57	-59	440
45	LST	RTE 20	475 BOSTON POST RD SUDBURY MA 01776-0000 <i>Site No Current Date Status Desc:</i> 3-0015951 10/3/2007 Response Action Outcome	ESE	0.29 / 1,556.57	-59	442
45	RELEASE	RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0015872 <i>Current Status:</i> RAO	ESE	0.29 / 1,556.57	-59	444
45	RELEASE	RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0015951 <i>Current Status:</i> RAO	ESE	0.29 / 1,556.57	-59	445
46	RELEASE	SOUSA	477 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0000602 <i>Current Status:</i> RAO	ESE	0.29 / 1,555.93	-59	450
47	LUST	CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0004202	ESE	0.26 / 1,370.95	-57	451
47	RELEASE	CUMBERLAND FARMS	470 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0029588 <i>Current Status:</i> RAONR	ESE	0.26 / 1,370.95	-57	468
47	RELEASE	CUMBERLAND FARMS	470 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0023429 <i>Current Status:</i> RAONR	ESE	0.26 / 1,370.95	-57	473
47	LST	CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA 01776-0000 <i>Site No Current Date Status Desc:</i> 3-0004202 2/5/2009 Response Action Outcome	ESE	0.26 / 1,370.95	-57	476
47	RELEASE	CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0004202 <i>Current Status:</i> RAO	ESE	0.26 / 1,370.95	-57	478
48	LST	MOBIL STATION	465 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.26 / 1,390.43	-57	495

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<i>Site No Current Date Status Desc:</i> 3-0002341 9/20/2006 Response Action Outcome							
48	LUST	MOBIL STATION	465 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0002341	ESE	0.26 / 1,390.43	-57	496
48	RELEASE	MOBIL STATION	465 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0002341 <i>Current Status:</i> RAO	ESE	0.26 / 1,390.43	-57	508
49	HIST LUST	STORM DRAIN OUTFALL	239 NOBSCOT RD SUDBURY MA <i>Spill ID Case Closed:</i> N93-0018 YES	ESE	0.30 / 1,576.70	-54	519
49	LUST	INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA <i>RTN:</i> 3-0004668	ESE	0.30 / 1,576.70	-54	519
49	RELEASE	NO LOCATION AID	239 NOBSCOT RD SUDBURY MA <i>RTN:</i> 3-0026639 <i>Current Status:</i> RAO	ESE	0.30 / 1,576.70	-54	521
49	LST	INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA 01776-0000 <i>Site No Current Date Status Desc:</i> 3-0004668 9/24/2001 Downgradient Property Status	ESE	0.30 / 1,576.70	-54	523
49	RELEASE	INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA <i>RTN:</i> 3-0004668 <i>Current Status:</i> DPS	ESE	0.30 / 1,576.70	-54	524
50	RCRA NON GEN	I C TESTING INC	31 C UNION AVE SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD055304604	ESE	0.02 / 127.73	-60	526
51	UST	COATINGS ENGINEERING CORP	33 UNION AVE SUDBURY MA 01776 <i>Facility ID:</i> 11009 <i>Tank ID Status Status Date:</i> 4 Tank Removed 10-Jun-1987, 7 Tank Removed 10-Jun-1987, 2 Tank Removed 10-Jun-1987, 6 Tank Removed 10-Jun-1987, 3 Tank Removed 10-Jun-1987, 8 Tank Removed 10-Jun-1987, 1 Tank Removed 10-Jun-1987, 9 Tank Removed 10-Jun-1987, 5 Tank Removed 10-Jun-1987, 10 Tank Removed 10-Jun-1987	ESE	0.03 / 173.74	-60	528
51	RELEASE	COATINGS ENGINEERING	33 UNION RD SUDBURY MA <i>RTN:</i> 3-0000074 <i>Current Status:</i> RAO	ESE	0.03 / 173.74	-60	532
51	RCRA NON GEN	COATINGS ENGR CORP	33 UNION AVE SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD001063338	ESE	0.03 / 173.74	-60	546
51	SPILLS	COATINGS ENGINEERING	33 UNION RD SUDBURY MA 01776-0000	ESE	0.03 / 173.74	-60	548
51	RCRA CESQG	STAPLES CONTRACT AND COMMERCIAL	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	-60	555

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>EPA Handler ID:</i> MAC300093028				
51	GEN	STAPLES CONTRACT AND COMMERCIAL	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	-60	557
52	RELEASE	MULLEN LUMBER	39 UNION AVE SUDBURY MA	ESE	0.04 / 201.52	-61	557
			<i>RTN:</i> 3-0002640 <i>Current Status:</i> RAO				
52	SPILLS	MULLEN LUMBER	39 UNION AVE SUDBURY MA 01776	ESE	0.04 / 201.52	-61	561
53	UST	UNION AVE REALTY	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	-61	564
			<i>Facility ID:</i> 10992 <i>Tank ID Status Status Date:</i> 1 Tank Closure In-Place 22-Sep-2010				
53	GEN	CHARLES J PERCOURT & SONS INC	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	-61	565
53	RCRA CESQG	CHARLES J PRECOURT & SON INC	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	-61	566
			<i>EPA Handler ID:</i> MAR000535054				
54	UST	E H PERKINS CONSTRUCTION INC	50 UNION AVE SUDBURY MA 01776	ESE	0.06 / 315.40	-61	567
			<i>Facility ID:</i> 10995 <i>Tank ID Status Status Date:</i> 1 Tank Removed 10-Jun-1987, 2 Tank Removed 10-Jun-1987				
55	RCRA SQG	METHODS MACHINE TOOLS INC	65 UNION AVE SUDBURY MA 01776	ESE	0.14 / 731.78	-62	568
			<i>EPA Handler ID:</i> MAD019659044				
55	RCRA NON GEN	WORTHINGTON CYLINDERS	65 UNION ST REAR SUDBURY MA 01776	ESE	0.14 / 731.78	-62	570
			<i>EPA Handler ID:</i> MAC300102399				
56	RCRA NON GEN	COMREX CORP	60 UNION AVE SUDBURY MA 01776	ESE	0.11 / 574.57	-62	572
			<i>EPA Handler ID:</i> MAD001071083				
57	RELEASE	FUEL DEPOT FMR	450 BOSTON POST RD SUDBURY MA	ESE	0.20 / 1,030.15	-57	573
			<i>RTN:</i> 3-0004638 <i>Current Status:</i> RAO				
58	RCRA NON GEN	HYCOMP INC	75 UNION AVE SUDBURY MA 01776	ESE	0.18 / 930.42	-61	575
			<i>EPA Handler ID:</i> MAD048281240				
59	UST	ERNEST SCHOFIELD	80 UNION AVE SUDBURY MA 01776	ESE	0.19 / 987.05	-62	576

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>Facility ID:</i> 10999 <i>Tank ID Status Status Date:</i> 3 Tank Removed 01-Jan-1985, 1 Tank Removed 01-Jan-1985, 2 Tank Removed 01-Jan-1985				
59	HIST LAST	UNION & PALMER REALTY TRUST	80 UNION STREET SUDBURY MA	ESE	0.19 / 987.05	-62	578
			<i>Spill ID Case Closed:</i> N89-1502 YES				
59	LAST	UNION PALMER REALTY TRUST	80 UNION AVE SUDBURY MA	ESE	0.19 / 987.05	-62	578
			<i>RTN:</i> 3-0003371				
59	RELEASE	UNION PALMER REALTY TRUST	80 UNION AVE SUDBURY MA	ESE	0.19 / 987.05	-62	580
			<i>RTN:</i> 3-0003371 <i>Current Status:</i> RAO				
60	UST	MULLEN LUMBER CO INC	28 UNION AVE SUDBURY MA 01776	ESE	0.07 / 355.76	-60	582
			<i>Facility ID:</i> 10991 <i>Tank ID Status Status Date:</i> 1 Tank Removed 05-May-1993				
61	LUST	15 UNION AVENUE	15 UNION AVE SUDBURY MA	ESE	0.09 / 452.87	-60	583
			<i>RTN:</i> 3-0014107				
61	LST	15 UNION AVENUE	15 UNION AVE SUDBURY MA 01776-0000	ESE	0.09 / 452.87	-60	585
			<i>Site No Current Date Status Desc:</i> 3-0014107 4/3/2002 Response Action Outcome				
61	SPILLS	15 UNION AVENUE	15 UNION AVE SUDBURY MA 01776-0000	ESE	0.09 / 452.87	-60	587
61	RELEASE	15 UNION AVENUE	15 UNION AVE SUDBURY MA	ESE	0.09 / 452.87	-60	590
			<i>RTN:</i> 3-0014107 <i>Current Status:</i> RAO				
62	ASBESTOS PROJECT	SUDBURY POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	-61	592
62	ASBESTOS PROJECT	us post office	18 union avenue SUDBURY MA	ESE	0.08 / 433.37	-61	593
62	ASBESTOS PROJECT	POST OFFICE	18 UNION ST SUDBURY MA	ESE	0.08 / 433.37	-61	593
62	ASBESTOS PROJECT	USPS SUDBURY	18 UNION AVE. SUDBURY MA	ESE	0.08 / 433.37	-61	593
62	ASBESTOS PROJECT	SUDBURY POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	-61	593

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
62	ASBESTOS PROJECT	US POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	-61	594
63	GEN	CONTRONAUTICS INCORPORATED	31 WILKINS HUDSON MA 01749	WNW	0.07 / 372.65	30	594
63	RCRA CESQG	CONTRONAUTICS, INCORPORATED	31 WILKINS HUDSON MA 01749 <i>EPA Handler ID:</i> MAR000526368	WNW	0.07 / 372.65	30	594
63	ASBESTOS PROJECT	PAUL MCGUIRE	31 WILKINS ST HUDSON MA	WNW	0.07 / 372.65	30	596
64	UST	SUDBURY MOBIL	432 BOSTON POST RD SUDBURY MA 01776 <i>Facility ID:</i> 11006 <i>Tank ID Status Status Date:</i> 5 Tank Removed 14-Jun-1989, 3 Tank Removed 05-May-1993, 4 Tank Removed 14-Jun-1989, 9 Tank Removed 05-Nov-2008, 6 In Use , 10 Tank Removed 05-Nov-2008, 1 Tank Removed 14-Jun-1989, 8 Tank Closure In-Place 05-Apr-2019, 7 In Use , 2 Tank Removed 14-Jun-1989	ESE	0.17 / 884.40	-58	596
64	LUST	MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0002423	ESE	0.17 / 884.40	-58	600
64	RELEASE	MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0028383 <i>Current Status:</i> RAO	ESE	0.17 / 884.40	-58	618
64	RELEASE	MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0028384 <i>Current Status:</i> RAO	ESE	0.17 / 884.40	-58	621
64	RELEASE	MOBIL SERVICE STA #10381 (FRMR 01-474)	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0026036 <i>Current Status:</i> RAONR	ESE	0.17 / 884.40	-58	623
64	RELEASE	MOBIL STATION 01-474	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0024771 <i>Current Status:</i> RAONR	ESE	0.17 / 884.40	-58	629
64	RELEASE	MOBIL SERVICE STATION 01-474	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0023726 <i>Current Status:</i> RAONR	ESE	0.17 / 884.40	-58	633
64	RCRA CESQG	MOBIL 2477	432 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD985296128	ESE	0.17 / 884.40	-58	637
64	LST	MOBIL STATION	432 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.17 / 884.40	-58	646

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
Site No Current Date Status Desc: 3-0002423 9/13/2006 Response Action Outcome							
64	RELEASE	MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0002423 <i>Current Status:</i> RAO	ESE	0.17 / 884.40	-58	647
65	RCRA CESQG	EXXONMOBIL OIL CORPORATION 01CY7	431 RTE 20 SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD985296243	ESE	0.17 / 888.07	-58	665
66	RCRA NON GEN	STEVES AUTO BODY	40 STATION RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD019658582	ESE	0.01 / 57.56	-62	667
66	RCRA CESQG	STATION ROAD AUTO BODY & GARAGE INC	40 STATION RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD982190373	ESE	0.01 / 57.56	-62	669
66	FINDS/FRS	STATION ROAD AUTO BODY & GARAG	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	-62	672
66	FINDS/FRS	STEVES AUTO BODY	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	-62	672
66	GEN	STATION ROAD AUTO BODY & GARAGE INC	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	-62	673
67	RELEASE	CHISWICK PROPERTIES FMR	BOSTON POST ROAD UNION ST SUDBURY MA <i>RTN:</i> 3-0000020 <i>Current Status:</i> RAO	ESE	0.16 / 834.61	-58	673
68	RELEASE	SUDBURY CLEANERS	428 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0010592 <i>Current Status:</i> REMOPS	ESE	0.15 / 777.52	-58	677
68	RCRA NON GEN	SUDBURY CLEANERS	428 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD091499897	ESE	0.15 / 777.52	-58	683
69	RCRA CESQG	COLONIAL AUTO OF SUDBURY	430 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD980906911	ESE	0.14 / 759.70	-58	684
70	RELEASE	NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0030065 <i>Current Status:</i> RAO	ESE	0.14 / 745.84	-57	692
70	LST	NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA 01776-3011	ESE	0.14 / 745.84	-57	693

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
Site No Current Date Status Desc: 3-0030065 8/4/2011 Response Action Outcome							
70	LUST	NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0030065	ESE	0.14 / 745.84	-57	694
71	RCRA CESQG	MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD019679059	ESE	0.01 / 55.22	-63	696
71	FINDS/FRS	MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	-63	700
71	GEN	MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	-63	701
71	FINDS/FRS	MOSHER AUTOBODY	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	-63	701
72	RCRA CESQG	SUDBURY PIZZA	426 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAR000567180	ESE	0.13 / 709.15	-58	701
72	RELEASE	SUDBURY PIZZA	426 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0035807 <i>Current Status:</i> PSNC	ESE	0.13 / 709.15	-58	702
72	LUST	SUDBURY PIZZA	426 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0035807	ESE	0.13 / 709.15	-58	704
73	HIST LUST	SUDBURY MOBIL	423 BOSTON POST RD SUDBURY MA <i>Spill ID Case Closed:</i> N92-1121 YES	ESE	0.12 / 631.62	-58	706
73	RCRA NON GEN	FORMER DBA RITE AID 10106	423 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAC300021102	ESE	0.12 / 631.62	-58	706
74	RELEASE	FAHEY EXHIBITS BUILDING	501 GLEASONDALE RD STOW MA <i>RTN:</i> 2-0000427 <i>Current Status:</i> RAO	WNW	0.57 / 3,024.48	-15	710
74	RELEASE	GLEASONDALE MILL	501 GLEASONDALE ROAD STOW MA <i>RTN:</i> 2-0021116 <i>Current Status:</i> UNCLSS	WNW	0.57 / 3,024.48	-15	718
75	RELEASE	WASTE MANAGEMENT INC	66 FORT MEADOW RD HUDSON MA	W	0.88 / 4,657.14	101	718

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
76	ASBESTOS PROJECT	OLD SUDBURY POLICE STATION	415 BOSTON POST ROAD SUDBURY MA	ESE	0.10 / 542.21	-58	720
			<i>RTN: 2-0011278</i> <i>Current Status: RAO</i>				
76	ASBESTOS PROJECT	415 BOSTON POST ROAD	415 BOSTON POST ROAD SUDBURY MA	ESE	0.10 / 542.21	-58	720
77	RCRA CESQG	TJ MAXX T0281	437 BOSTON POST RD SUDBURY MA 01776	ESE	0.20 / 1,042.56	-55	720
			<i>EPA Handler ID: MAR000544221</i>				
78	RELEASE	MASSACHUSETTS FIREFIGHTING ACADEMY	1 SUDBURY RD STOW MA	WNW	0.80 / 4,200.92	12	722
			<i>RTN: 2-0017327</i> <i>Current Status: RAO</i>				
79	RCRA NON GEN	1 HR INSTANT PHOTO	410 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 480.71	-58	724
			<i>EPA Handler ID: MAD985307750</i>				
80	ASBESTOS PROJECT	VACANT BUILDING	400 BOSTON POST ROAD SUDBURY MA	ESE	0.07 / 348.96	-57	726
81	RELEASE	MIDDLEBORO TRAIN YARD	1 STATION RD MIDDLEBOROUGH MA	ESE	0.01 / 43.46	-63	726
			<i>RTN: 4-0022510</i> <i>Current Status: RAO</i>				
81	SPILLS	MIDDLEBORO TRAIN YARD	1 STATION RD MIDDLEBOROUGH MA	ESE	0.01 / 43.46	-63	728
82	ASBESTOS PROJECT	CHERYL SALATINO	14 MAPLE AVENUE SUDBURY MA	ESE	0.06 / 301.33	-47	729
83	LAST	BEHIND MACKINNONS LIQUOR	5 CONCORD RD SUDBURY MA	ESE	0.13 / 683.06	-47	730
			<i>RTN: 3-0026018</i>				
83	RELEASE	BEHIND MACKINNONS LIQUOR	5 CONCORD RD SUDBURY MA	ESE	0.13 / 683.06	-47	731
			<i>RTN: 3-0026018</i> <i>Current Status: RAO</i>				
84	ASBESTOS PROJECT	CHICKEN COOPS	6 WILKINS ST HUDSON MA	WNW	0.00 / 11.90	26	733
85	ASBESTOS PROJECT	CITI GROUP	5-10 CONCORD RD SUDBURY MA	ESE	0.12 / 638.79	-47	733

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
86	ASBESTOS PROJECT	WOLFE RESIDENCE	159-61 FORREST ST HUDSON MA	WNW	0.00 / 9.89	25	733
87	ASBESTOS PROJECT	RESIDENTIAL	156 FOREST AVENUE HUDSON MA	WNW	0.00 / 9.92	24	733
87	ASBESTOS PROJECT	RESIDENTIAL	156 FOREST AVENUE HUDSON MA	WNW	0.00 / 9.92	24	734
88	HIST LUST		457N MAIN STREET HUDSON MA <i>Spill ID Case Closed:</i> C88-0102 YES	WNW	0.02 / 127.79	26	734
89	UST	VERIZON MASSACHUSETTS #568506	351 BOSTON POST RD SUDBURY MA 01776 <i>Facility ID:</i> 10996	ESE	0.12 / 659.51	-47	734
89	ASBESTOS PROJECT	VERIZON	351 BOSTON POST ROAD SUDBURY MA	ESE	0.12 / 659.51	-47	735
90	UST	MOBIL LUBE AND OIL	457 MAIN ST HUDSON MA 01749 <i>Facility ID:</i> 19415 <i>Tank ID Status Status Date:</i> 3 In Use , 1 In Use , 2 In Use	WNW	0.06 / 320.80	25	735
90	GEN	MOPBIL LUBE & OIL	457 MAIN ST HUDSON MA 01749	WNW	0.06 / 320.80	25	737
91	CERCLIS	PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 017763441 <i>Site EPA ID:</i> MA0001094572	ESE	0.05 / 274.13	-39	737
91	CERCLIS NFRAP	PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 17763441 <i>Site EPA ID:</i> MA0001094572	ESE	0.05 / 274.13	-39	738
91	SEMS ARCHIVE	PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 01776-3441 <i>EPA ID:</i> MA0001094572	ESE	0.05 / 274.13	-39	739
92	RCRA NON GEN	PEIRCE ROSE INC	60 MAPLE AVE SUDBURY MA 01776 <i>EPA Handler ID:</i> MAD066616145	ESE	0.05 / 253.23	-32	739
93	FINDS/FRS	FOREST AVENUE ELEMENTARY SCHOOL	138 FOREST AVENUE HUDSON MA 01749-2840	W	0.00 / 3.52	41	741

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>94</u>	ASBESTOS PROJECT	HUDSON PUBLIC SCHOOLS	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	43	<u>741</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	43	<u>742</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE ELEMENTARY SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	43	<u>742</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	43	<u>742</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	43	<u>742</u>
<u>94</u>	ASBESTOS PROJECT	FORREST AVE SCHOOL	136 FORREST AVE HUDSON MA	W	0.00 / 3.75	43	<u>742</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE ELEMENTARY SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	43	<u>743</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	43	<u>743</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVENUE SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	43	<u>743</u>
<u>94</u>	ASBESTOS PROJECT	FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	43	<u>743</u>
<u>95</u>	ASBESTOS PROJECT	CHILDRENS AFTER SCHOOL PROGRAMS INC	127 FOREST AVE HUDSON MA	W	0.00 / 14.33	45	<u>744</u>
<u>95</u>	ASBESTOS PROJECT	CHILDRENS AFTER SCHOOL PROGRAMS INC	127 FOREST AVE HUDSON MA	W	0.00 / 14.33	45	<u>744</u>
<u>96</u>	ASBESTOS PROJECT	MARY AKINS	39 WOODROW STREET HUDSON MA	W	0.12 / 615.60	42	<u>744</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
97	SWF/LF	HUDSON TRANSFER STATION	300 COX ST HUDSON, MA 01749 MA	WNW	0.34 / 1,781.68	15	744
98	FINDS/FRS	FAMILY ORTHODONTICS OF HUDSON	118 FOREST AVE HUDSON MA 017490000	W	0.00 / 10.64	44	745
99	HIST LUST	BELOW GND TANK REMOVAL	422 MAIN ST. HUDSON MA	WNW	0.39 / 2,083.56	5	746
<i>Spill ID Case Closed: C89-0213 YES</i>							
100	AUL	GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA	ESE	0.10 / 506.68	-45	746
100	RELEASE	GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA <i>RTN: 3-0001153</i> <i>Current Status: RAO</i>	ESE	0.10 / 506.68	-45	749
101	CERCLIS	HUDSON LIGHT & POWER	CHERRY ST. STATION HUDSON MA 01749	W	0.15 / 783.67	44	752
<i>Site EPA ID: MAD980671051</i>							
102	LUST	POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA	WNW	0.43 / 2,251.30	5	754
<i>RTN: 2-0012541</i>							
102	RELEASE	WASTE SOLUTIONS, INC	420 MAIN ST HUDSON MA	WNW	0.43 / 2,251.30	5	755
<i>RTN: 2-0015477</i> <i>Current Status: RAO</i>							
102	LST	POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA 01749-0000	WNW	0.43 / 2,251.30	5	757
<i>Site No Current Date Status Desc: 2-0012541 5/13/1999 Response Action Outcome</i>							
102	RELEASE	POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA	WNW	0.43 / 2,251.30	5	758
<i>RTN: 2-0012541</i> <i>Current Status: RAO</i>							
103	ASBESTOS PROJECT	TRACY FACILE	106 FOREST AVENUE HUDSON MA	W	0.00 / 7.55	39	760
104	RELEASE	ZINA FARM	1 ZINA RD HUDSON MA	WNW	0.61 / 3,206.88	8	760
<i>RTN: 2-0016208</i> <i>Current Status: TIER1D</i>							
105	UST	SUDBURY GETTY	227 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 459.18	-51	764

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
			Facility ID: 11002 Tank ID Status Status Date: 2 Tank Removed 05-May-1992, 3 Tank Removed 05-May-1992, 1 Tank Removed 05-May-1992					
105	SPILLS	GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 459.18	-51	766	
106	FINDS/FRS	KUSTOM KREATIONS INC	104 FOREST ST HUDSON MA 017490000	W	0.00 / 7.29	37	768	
106	GEN	KUSTOM KREATIONS INC	104 FOREST AVE HUDSON MA 01749	W	0.00 / 7.29	37	769	
106	RCRA CESQG	KUSTOM KREATIONS INC	104 FOREST AVE HUDSON HUDSON MA 01749	W	0.00 / 7.29	37	769	
			EPA Handler ID: MAR000573824					
107	ASBESTOS PROJECT	BARRETT RESIDENCE	222 BOSTON POST ROAD SUDBURY MA	ESE	0.08 / 432.13	-49	770	
108	RELEASE	MOREL FOREIGN AUTO REPAIR	406 MAIN ST HUDSON MA	WNW	0.39 / 2,047.25	10	770	
			RTN: 2-0000255 Current Status: RAO					
109	UST	SUDBURY AUTOMOTIVE	209 BOSTON POST RD SUDBURY MA 01776	ESE	0.05 / 283.47	-39	772	
			Facility ID: 11003 Tank ID Status Status Date: 1 Tank Removed 03-Nov-2015, 3 Tank Removed 03-Nov-2015, 2 Tank Removed 03-Nov-2015, 6 In Use 22-Jan-2016, 5 In Use 22-Jan-2016, 4 Tank Removed 01-Jan-2002					
109	LUST	NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 283.47	-39	775	
			RTN: 3-0033240					
109	LST	NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA 01776-0000	ESE	0.05 / 283.47	-39	780	
			Site No Current Date Status Desc: 3-0033240 11/8/2016 Tier 2					
109	SPILLS	NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA 01776-0000	ESE	0.05 / 283.47	-39	781	
109	RELEASE	NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 283.47	-39	785	
			RTN: 3-0033240 Current Status: TIERII					
109	GEN	SUDBURY AUTOMOTIVE INC	209 BOSTON POST RD SUDBURY MA 01776	ESE	0.05 / 283.47	-39	790	

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
109	OIL & HAZ MAT	NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 283.47	-39	790
109	RCRA NON GEN	SUDBURY AUTOMOTIVE INC	209 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID:</i> MAV000011143	ESE	0.05 / 283.47	-39	791
110	ASBESTOS PROJECT	PATRICK DELANEY	206 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 286.16	-41	791
111	HIST LUST	SUDBURY AUTOMOTIVE	RTE 20 @ LANHAM RD SUDBURY MA <i>Spill ID Case Closed:</i> N91-1290 YES	ESE	0.05 / 268.70	-41	792
111	RELEASE	NO LOCATION AID	BOSTON POST ROAD AT LANDHAM RD SUDBURY MA <i>RTN:</i> 3-0027224 <i>Current Status:</i> URAM	ESE	0.05 / 268.70	-41	792
111	SPILLS	NO LOCATION AID	BOSTON POST ROAD AT LANDHAM RD SUDBURY MA 01776-0000	ESE	0.05 / 268.70	-41	793
112	RELEASE	LPM HOLDING INC	90 CHERRY ST HUDSON MA <i>RTN:</i> 2-0015363 <i>Current Status:</i> DPS	W	0.26 / 1,363.83	8	795
113	ASBESTOS PROJECT	TED SHYLOUSKY	192 BOSTON POST ROAD SUDBURY MA	ESE	0.07 / 354.42	-44	796
113	ASBESTOS PROJECT	HOUSE	192 BOSTON POST RD SUDBURY MA	ESE	0.07 / 354.42	-44	797
114	ASBESTOS PROJECT	KEITH CONSTRUCTION	189 BOSTON POST ROAD SUDBURY MA	ESE	0.06 / 337.15	-44	797
115	AST	HUDSON LIGHT & POWER DEPT - CHERRY ST	77 CHERRY ST HUDSON MA 01749 <i>License No:</i> OSFM-00741 <i>License Status:</i> Tank Removed	W	0.24 / 1,280.80	8	797
115	AST	HUDSON LIGHT & POWER DEPT - CHERRY ST	77 CHERRY ST HUDSON MA 01749 <i>License No:</i> OSFM-00783 <i>License Status:</i> Tank Removed	W	0.24 / 1,280.80	8	797
115	LAST	HUDSON LIGHT & POWER DEPARTMENT	77 CHERRY ST HUDSON MA	W	0.24 / 1,280.80	8	798

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>RTN: 2-0017400</i>				
115	RCRA SQG	HUDSON LIGHT & POWER DEPT	77 CHERRY ST HUDSON MA 01749	W	0.24 / 1,280.80	8	799
			<i>EPA Handler ID: MAD980671051</i>				
115	SEMS	HUDSON LIGHT & POWER GENERATING STATION	77 CHERRY ST HUDSON MA 01749	W	0.24 / 1,280.80	8	802
			<i>EPA ID: MAD980671051</i>				
115	RELEASE	HUDSON LIGHT & POWER DEPARTMENT	77 CHERRY ST HUDSON MA	W	0.24 / 1,280.80	8	803
			<i>RTN: 2-0017400</i> <i>Current Status: RAO</i>				
116	RELEASE	PROPERTY	78 CHERRY STREET HUDSON MA	W	0.24 / 1,292.28	9	805
			<i>RTN: 2-0018467</i> <i>Current Status: RAO</i>				
116	RCRA NON GEN	ASSABET MACHINE CORP	78 CHERRY ST HUDSON MA 01749	W	0.24 / 1,292.28	9	806
			<i>EPA Handler ID: MAD081567877</i>				
117	RELEASE	DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	809
			<i>RTN: 2-0012171</i> <i>Current Status: RAO</i>				
117	RELEASE	DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	811
			<i>RTN: 2-0001049</i> <i>Current Status: RAO</i>				
117	RELEASE	DIGITAL EQUIPMENT FACILITY	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	812
			<i>RTN: 2-0012116</i> <i>Current Status: RAO</i>				
117	RELEASE	INTEL CENTRAL UTILITY BLDG	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	814
			<i>RTN: 2-0013852</i> <i>Current Status: RAO</i>				
117	RELEASE	DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	815
			<i>RTN: 2-0010471</i> <i>Current Status: RAO</i>				
117	RELEASE	INTEL CORP BLDG HD2	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	816
			<i>RTN: 2-0014517</i> <i>Current Status: RAO</i>				
117	RELEASE	INTEL CORP.	75 REED RD HUDSON MA	W	0.50 / 2,661.61	171	818
			<i>RTN: 2-0017100</i> <i>Current Status: RAO</i>				
117	RELEASE	FORMER INTEL CO.	75 REED ROAD HUDSON MA	W	0.50 / 2,661.61	171	819

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>RTN: 2-0020485</i> <i>Current Status: PSNC</i>				
117	RELEASE	DIESEL FUEL RELEASE	75 REED ROAD HUDSON MA	W	0.50 / 2,661.61	171	821
			<i>RTN: 2-0020935</i> <i>Current Status: PSNC</i>				
118	AST	HUDSON LIGHT & POWER DEPT - STOW CT	49 Forest St Hudson MA 01749	W	0.04 / 230.59	26	822
			<i>License No: OSFM-00740</i> <i>License Status: Active</i>				
118	AST	HUDSON LIGHT & POWER DEPT - STOW CT	49 Forest St Hudson MA 01749	W	0.04 / 230.59	26	822
			<i>License No: OSFM-00784</i> <i>License Status: Tank Removed</i>				
118	UST	TOWN OF HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	26	823
			<i>Facility ID: 9934</i> <i>Tank ID / Status / Status Date: 1 Tank Removed 20-Oct-1997</i>				
118	RELEASE	HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA	W	0.04 / 230.59	26	824
			<i>RTN: 2-0010202</i> <i>Current Status: RAO</i>				
118	RCRA SQG	HUDSON LIGHT & POWER DEPT	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	26	825
			<i>EPA Handler ID: MAD000887180</i>				
118	LST	HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 1749	W	0.04 / 230.59	26	826
			<i>Site No / Current Date / Status Desc: 2-0010202 4/19/1994 Response Action Outcome</i>				
118	SPILLS	HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	26	828
118	LUST	HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA	W	0.04 / 230.59	26	830
			<i>RTN: 2-0010202</i>				
118	PCB	HUDSON LIGHT AND POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	26	831
118	GEN	HUDSON LIGHT & POWER DEPT	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	26	832
119	ASBESTOS PROJECT	KENNETH LAVACHE	44 FOREST AVE HUDSON MA	W	0.07 / 390.47	19	832

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
120	UST	STOCKROOM (OLD)	CHERRY ST HUDSON MA 01749 <i>Facility ID: 9933</i> <i>Tank ID Status Status Date: 1 Tank Removed 01-Apr-1989</i>	W	0.23 / 1,208.65	8	832
121	RELEASE	LEVINS PROPERTY	1 HARVEY ST HUDSON MA <i>RTN: 2-0015087</i> <i>Current Status: RAO</i>	WNW	0.97 / 5,140.03	29	833
122	RELEASE	AFFORDABLE INTERIOR SYSTEMS	54 CHERRY ST HUDSON MA <i>RTN: 2-0015979</i> <i>Current Status: RAO</i>	W	0.23 / 1,220.74	8	835
123	RELEASE	BUDDY DOG ANIMAL HOSPITAL	163 BOSTON POST RD SUDBURY MA <i>RTN: 3-0018895</i> <i>Current Status: RAO</i>	E	0.14 / 719.53	-62	837
124	LUST	TOWER ST	350 MAIN ST HUDSON MA <i>RTN: 2-0010717</i>	W	0.30 / 1,565.34	13	838
124	LST	TOWER ST	350 MAIN ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc: 2-0010717 6/8/1999 Response Action Outcome</i>	W	0.30 / 1,565.34	13	841
124	RELEASE	QUALITY GAS	350 MAIN STREET HUDSON MA <i>RTN: 2-0019282</i> <i>Current Status: PSNC</i>	W	0.30 / 1,565.34	13	843
124	RELEASE	TOWER ST	350 MAIN ST HUDSON MA <i>RTN: 2-0010717</i> <i>Current Status: RAO</i>	W	0.30 / 1,565.34	13	845
125	RELEASE	ROADWAY RELEASE	8 STEVENS ROAD HUDSON MA <i>RTN: 2-0021281</i>	W	0.25 / 1,323.27	102	848
126	RELEASE	CARLTON ST	30 TOWER ST HUDSON MA <i>RTN: 2-0013390</i> <i>Current Status: DPS</i>	W	0.38 / 1,993.05	24	848
126	RELEASE	N E SMALL BUSINESS INVEST CORP	30 TOWER ST HUDSON MA <i>RTN: 2-0010326</i> <i>Current Status: RAO</i>	W	0.38 / 1,993.05	24	850
127	RELEASE	PARADISE GYM	312 MAIN ST HUDSON MA <i>RTN: 2-0013121</i> <i>Current Status: RAO</i>	W	0.30 / 1,588.81	11	853
127	RELEASE	MAIN AND TOWER PARTNERS LLC	312 MAIN ST HUDSON MA <i>RTN: 2-0017090</i> <i>Current Status: RAO</i>	W	0.30 / 1,588.81	11	855
128	HIST LUST	CONTAM. SOIL	34 TOWER STREET HUDSON MA	WNW	0.48 / 2,536.97	58	857

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
			Spill ID Case Closed: C90-0012 YES					
128	LUST	LAPOINTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	58	857	
			RTN: 2-0013687					
128	LUST	L AND S INDUSTRIAL PARK	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	58	859	
			RTN: 2-0000735					
128	LST	LAPOINTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA 01749-0000	WNW	0.48 / 2,536.97	58	860	
			Site No Current Date Status Desc: 2-0013687 2/20/2002 Response Action Outcome					
128	LST	L & S INDUSTRIAL PARK	34 TOWER ST HUDSON MA 1749	WNW	0.48 / 2,536.97	58	862	
			Site No Current Date Status Desc: 2-0000735 6/21/1995 Waiver Completion Statement					
128	RELEASE	LAPOINTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	58	862	
			RTN: 2-0013687 Current Status: RAO					
128	RELEASE	L AND S INDUSTRIAL PARK	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	58	864	
			RTN: 2-0000735 Current Status: WCSPRM					
129	UST	LINDE GASES OF NEW ENGLAND INC	141 BOSTON POST RD SUDBURY MA 01776	E	0.23 / 1,195.98	-60	865	
			Facility ID: 20615 Tank ID Status Status Date: 1 Tank Removed 01-Dec-1988, 2 Tank Removed 01-Dec-1988, 3 Tank Removed 04-Apr-1988					
129	HIST LUST		141 BOSTON POST RD SUDBURY MA	E	0.23 / 1,195.98	-60	867	
			Spill ID Case Closed: N88-0430 YES					
129	LUST	UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA	E	0.23 / 1,195.98	-60	867	
			RTN: 3-0002545					
129	RCRA NON GEN	PRAXAIR INC	141 BOSTON POST RD SUDBURY MA 01776	E	0.23 / 1,195.98	-60	869	
			EPA Handler ID: MAD001018357					
129	LST	UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA 1776	E	0.23 / 1,195.98	-60	870	
			Site No Current Date Status Desc: 3-0002545 3/11/1996 Waiver Completion Statement					
129	RELEASE	UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA	E	0.23 / 1,195.98	-60	871	
			RTN: 3-0002545 Current Status: WCSPRM					
130	RELEASE	RESIDENTIAL PROPERTY	292 MAIN STREET HUDSON MA	W	0.32 / 1,694.23	12	872	

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
131	LUST	G BONNAZOLI AND SONS INC	RTN: 2-0019870 Current Status: TIERI 262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	15	877
131	RELEASE	MR PROPERTY MANAGEMENT	RTN: 2-0012775 262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	15	880
131	RELEASE	LOWER MAIN ST LLC C-O MR PROPERTY MGMT I	RTN: 2-0013741 Current Status: RAO 262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	15	883
131	RELEASE	MP DEVELOPMENT LLC	RTN: 2-0014944 Current Status: RAO 262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	15	885
131	LST	G BONNAZOLI AND SONS INC	RTN: 2-0015183 Current Status: RAO 262 SAWYER LN HUDSON MA 01749-0000	W	0.37 / 1,956.47	15	888
<i>Site No Current Date Status Desc: 2-0012775 7/25/2000 Response Action Outcome</i>							
131	RELEASE	G BONNAZOLI AND SONS INC	262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	15	889
132	AUL	THORNDIKE PROPERTIES OF MA	RTN: 2-0012775 Current Status: RAO 12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	9	892
132	AUL	HUDSON LAGOONS	12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	9	895
132	RELEASE	HUDSON LAGOONS	12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	9	902
132	RELEASE	THORNDIKE PROPERTIES OF MA	RTN: 2-0010526 Current Status: RAO 12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	9	910
132	BROWNFIELDS	Hudson Lagoons	RTN: 2-0016411 Current Status: RAO 12 Wheeler Rd Hudson MA	W	0.32 / 1,695.30	9	913
133	RELEASE	STOP & SHOP SUPERMARKET	10 TECHNOLOGY DR HUDSON MA	W	0.86 / 4,563.02	120	913
134	RELEASE	ST MICHAELS PARISH	RTN: 2-0016344 Current Status: RAO 246 MAIN ST HUDSON MA	W	0.40 / 2,137.55	16	914

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
135	AUL	TUCKS SERVICE CENTER	RTN: 2-0015179 Current Status: RAO 244 BROAD ST HUDSON MA	W	0.48 / 2,509.36	85	918
135	RELEASE	TUCKS SERVICE CENTER	244 BROAD ST HUDSON MA	W	0.48 / 2,509.36	85	923
136	RELEASE	RICHEY & CLAPPER LANDSCAPE SUPPLY CO.	RTN: 2-0000938 Current Status: RAO 33 BOSTON POST ROAD SUDBURY MA	E	0.36 / 1,922.68	-62	927
137	RELEASE	ACT MANUFACTURING CORP	RTN: 3-0029754 Current Status: RAO TECHNOLOGY DR AND RTE 85 HUDSON MA	W	0.88 / 4,662.48	119	929
138	RELEASE	TUCKS TRUCKS	RTN: 2-0013377 Current Status: RAO 242 244 WASHINGTON ST HUDSON MA	W	0.79 / 4,191.72	114	930
139	SWF/LF	SUDBURY SAND HILL LANDFILL	RTN: 2-0013492 Current Status: RAO 20 BOSTON POST RD SUDBURY, MA 01776 MA	E	0.37 / 1,967.39	-64	931
139	SWF/LF	SUDBURY TRANSFER & RECYCLING CENTER	20 BOSTON POST RD SUDBURY, MA 01776 MA	E	0.37 / 1,967.39	-64	932
139	LAST	DPW TRANSFER STATION	20 BOSTON POST RD SUDBURY MA	E	0.37 / 1,967.39	-64	933
139	RELEASE	BELL TELL MANHOLE 206	RTN: 3-0017083 20 BOSTON POST ROAD SUDBURY MA	E	0.37 / 1,967.39	-64	934
139	RELEASE	BELL TELL MANHOLE 206	RTN: 3-0029909 Current Status: ADQREG 20 BOSTON POST RD SUDBURY MA	E	0.37 / 1,967.39	-64	937
139	LST	MA HWY DEPT DEPOT	RTN: 3-0023624 Current Status: ADQREG RT 20 BOSTON POST RD SUDBURY MA 01776-0000	E	0.37 / 1,967.39	-64	943
139	RELEASE	SUDBURY TRANSFER STATION	Site No Current Date Status Desc: 3-0010426 7/27/1995 Response Action Outcome 20 BOSTON POST ROAD SUDBURY MA	E	0.37 / 1,967.39	-64	944
			RTN: 3-0033503 Current Status: ADQREG				

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
139	RELEASE	DPW TRANSFER STATION	20 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0017083 <i>Current Status:</i> RAO	E	0.37 / 1,967.39	-64	946
139	RELEASE	SUDBURY LANDFILL	20 BOSTON POST ROAD SUDBURY MA <i>RTN:</i> 3-0034148 <i>Current Status:</i> PSNC	E	0.37 / 1,967.39	-64	947
140	RELEASE	NO LOCATION AID	83 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0021843 <i>Current Status:</i> DPS	E	0.38 / 1,990.43	-65	949
141	HIST LUST	TANK REMOVAL	43 BROAD ST. HUDSON MA <i>Spill ID Case Closed:</i> C92-0247 YES	W	0.41 / 2,155.67	17	950
141	LUST	HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA <i>RTN:</i> 2-0012725	W	0.41 / 2,155.67	17	951
141	RELEASE	INDEPENDENT CABLE	43 BROAD ST HUDSON MA <i>RTN:</i> 2-0010063 <i>Current Status:</i> RAO	W	0.41 / 2,155.67	17	952
141	LST	HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc:</i> 2-0012725 5/28/1999 Response Action Outcome	W	0.41 / 2,155.67	17	954
141	RELEASE	HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA <i>RTN:</i> 2-0012725 <i>Current Status:</i> RAO	W	0.41 / 2,155.67	17	956
142	LUST	MA HWY DEPT DEPOT	RT 20 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0010426	E	0.38 / 2,014.85	-65	957
142	RELEASE	MA HWY DEPT DEPOT	RT 20 BOSTON POST RD SUDBURY MA <i>RTN:</i> 3-0010426 <i>Current Status:</i> RAO	E	0.38 / 2,014.85	-65	959
143	LAST	TEST DEVICES INC	6 LORING ST HUDSON MA <i>RTN:</i> 2-0011703	W	0.43 / 2,277.42	18	962
143	RELEASE	TEST DEVICES INC	6 LORING ST HUDSON MA <i>RTN:</i> 2-0011703 <i>Current Status:</i> RAO	W	0.43 / 2,277.42	18	963
144	CERCLIS	H LAROSEE AND SONS INC	15 BROAD STREET HUDSON MA 017492501 <i>Site EPA ID:</i> MAD980731624	W	0.43 / 2,282.87	21	964

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
144	RELEASE	PROPERTY	15 BROAD STREET HUDSON MA <i>RTN:</i> 2-0018830 <i>Current Status:</i> TIER1D	W	0.43 / 2,282.87	21	967
144	SEMS	H LAROSEE AND SONS INC	15 BROAD STREET HUDSON MA 01749-2501 <i>EPA ID:</i> MAD980731624	W	0.43 / 2,282.87	21	971
144	BROWNFIELDS	H. LaRosee & Sons, Inc.	15 Broad Street Hudson MA	W	0.43 / 2,282.87	21	973
145	LUST	SHELL GASOLINE STATION	181 MAIN ST HUDSON MA <i>RTN:</i> 2-0016273	W	0.45 / 2,386.69	15	973
145	LST	SHELL GASOLINE STATION	181 MAIN ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc:</i> 2-0016273 5/29/2007 Response Action Outcome	W	0.45 / 2,386.69	15	976
145	RELEASE	SHELL GASOLINE STATION	181 MAIN ST HUDSON MA <i>RTN:</i> 2-0016273 <i>Current Status:</i> RAO	W	0.45 / 2,386.69	15	977
146	HIST LUST	TUCK'S SERVICE CENTER	WASHINGTON ST. AND BROAD ST. HUDSON MA <i>Spill ID Case Closed:</i> C92-0095 YES	W	0.45 / 2,357.30	17	979
146	HIST LAST	WARMER FUEL OIL CO.	BROAD & WASHINGTON ST. HUDSON MA <i>Spill ID Case Closed:</i> C85-0179 YES	W	0.45 / 2,357.30	17	980
147	RELEASE	NO LOCATION AID	6 OLD COUNTY RD SUDBURY MA <i>RTN:</i> 3-0025622 <i>Current Status:</i> RAO	E	0.52 / 2,727.58	-39	980
148	RELEASE	KM HIGH STREET LLC	186 MAIN STREET HUDSON MA <i>RTN:</i> 2-0019510 <i>Current Status:</i> PSNC	W	0.46 / 2,424.31	15	982
149	RELEASE	NO LOCATION AID	19 HAWTHORNE ROAD SUDBURY MA <i>RTN:</i> 3-0030271 <i>Current Status:</i> RAO	ESE	0.45 / 2,355.26	-65	984
150	RELEASE	PROPERTY	533 BOSTON POST RD WAYLAND MA <i>RTN:</i> 3-0003351 <i>Current Status:</i> RAO	E	0.43 / 2,278.26	-65	985
151	RELEASE	DIESEL FUEL LEAK	133 COX ST HUDSON MA <i>RTN:</i> 2-0013998 <i>Current Status:</i> RAO	WNW	0.94 / 4,940.34	77	986

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
152	RELEASE	HOUGHTON STREET LLC	50 HOUGHTON ST HUDSON MA <i>RTN: 2-0015202</i> <i>Current Status: RAO</i>	W	0.53 / 2,795.82	16	988
153	RELEASE	THOMAS TAYLOR & SONS	52-54 HOUGHTON ST HUDSON MA <i>RTN: 2-0000524</i> <i>Current Status: RAO</i>	W	0.53 / 2,805.01	19	990
154	RELEASE	SHOE FACTORY FMR	1 HOUGHTON ST HUDSON MA <i>RTN: 2-0000922</i> <i>Current Status: RAO</i>	W	0.53 / 2,783.96	12	991
155	RELEASE	THOMAS TAYLOR & SONS	49 HOUGHTON ST HUDSON MA <i>RTN: 2-0011299</i> <i>Current Status: RAO</i>	W	0.53 / 2,790.41	5	994
156	RELEASE	FORMER LARKIN LUMBER	136 MAIN STREET HUDSON MA <i>RTN: 2-0019349</i> <i>Current Status: PSNC</i>	W	0.54 / 2,861.59	12	996
157	RELEASE	CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0013611</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	97	999
157	RELEASE	CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0016604</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	97	1000
157	RELEASE	CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0011145</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	97	1001
157	RELEASE	CUMBERLAND FARMS INC	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0015666</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	97	1003
158	RELEASE	PURDY PROPERTY	191A WASHINGTON ST HUDSON MA <i>RTN: 2-0016830</i> <i>Current Status: RAO</i>	W	0.74 / 3,884.50	88	1005
159	RELEASE	MUNICIPAL ROADWAY	NEARBY 44 RIVER ROAD WAYLAND MA <i>RTN: 3-0031870</i> <i>Current Status: RAO</i>	E	0.91 / 4,820.51	-70	1007
160	RELEASE	COMMERCIAL PROPERTY	173 WASHINGTON STREET HUDSON MA <i>RTN: 2-0018043</i> <i>Current Status: PSC</i>	W	0.73 / 3,844.12	77	1008
161	RELEASE	HUDSON SENIOR CENTER	29 CHURCH ST HUDSON MA <i>RTN: 2-0017550</i> <i>Current Status: RAO</i>	W	0.64 / 3,390.22	37	1015

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
162	RELEASE	WASTE MANAGEMENT INC	154 WASHINGTON AVE HUDSON MA <i>RTN: 2-0013689</i> <i>Current Status: RAO</i>	W	0.72 / 3,816.77	78	1016
163	RELEASE	CELLUCI HUDSON CORP	153 WASHINGTON ST HUDSON MA <i>RTN: 2-0010317</i> <i>Current Status: RAO</i>	W	0.73 / 3,845.20	80	1017
164	RELEASE	WATERS MANUFACTURING	522 BOSTON POST RD LONGFELLOW WAYLAND MA <i>RTN: 3-0000059</i> <i>Current Status: RAO</i>	E	0.61 / 3,205.91	-24	1019
164	DELISTED REL	CHILDCARE CENTER	522 BOSTON POST ROAD WAYLAND MA 01778-0000	E	0.61 / 3,205.91	-24	1021
165	RELEASE	RJ CURLEY & SONS PROPERTY	152 MANNING ST LOT 234 HUDSON MA <i>RTN: 2-0018565</i> <i>Current Status: RAO</i>	WNW	0.96 / 5,085.52	25	1021
166	RELEASE	MAIN ST ROTARY	32 MAIN ST HUDSON MA <i>RTN: 2-0020579</i> <i>Current Status: PSNC</i>	W	0.72 / 3,788.60	27	1023
167	RELEASE	NO LOCATION AID	28 WASHINGTON STREET HUDSON MA <i>RTN: 2-0020026</i> <i>Current Status: PSC</i>	W	0.72 / 3,817.14	17	1024
168	RELEASE	STAR ENT FACILITY 11 143 1315	27 WASHINGTON ST HUDSON MA <i>RTN: 2-0001051</i> <i>Current Status: RAO</i>	W	0.74 / 3,917.52	16	1026
168	RELEASE	TEXACO STA FMR	27 WASHINGTON ST HUDSON MA <i>RTN: 2-0011920</i> <i>Current Status: RAO</i>	W	0.74 / 3,917.52	16	1027
169	RELEASE	DFL LAKE STREET LLC	29 & 39 LAKE STREET HUDSON MA <i>RTN: 2-0020652</i> <i>Current Status: PSC</i>	WNW	0.86 / 4,540.98	36	1028
170	RELEASE	CREATIVE HOME FURNISHINGS	32 WASHINGTON ST HUDSON MA <i>RTN: 2-0000069</i> <i>Current Status: RAO</i>	W	0.75 / 3,974.20	15	1029
171	RELEASE	BAKER COMMODITIES	32 36 WASHINGTON ST HUDSON MA <i>RTN: 2-0012183</i> <i>Current Status: RAO</i>	W	0.76 / 3,991.53	16	1032
172	RELEASE	DIESEL FUEL RELEASE	LINCOLN AND APSLEY ST HUDSON MA <i>RTN: 2-0020422</i> <i>Current Status: PSNC</i>	W	0.94 / 4,938.97	54	1033

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
173	RELEASE	INTERSECTION RTE 62	29 RIVER ST HUDSON MA <i>RTN: 2-0014213</i> <i>Current Status: RAO</i>	W	0.89 / 4,709.85	41	1035
174	RELEASE	PLANNED RIVERS EDGE DEVELOPMENT	484-490 BOSTON POST ROAD WAYLAND MA <i>RTN: 3-0036013</i> <i>Current Status: UNCLSS</i>	E	0.91 / 4,786.26	-70	1037
175	RELEASE	NEAR LANDFILL	484 BOSTON POST RD WAYLAND MA <i>RTN: 3-0027741</i> <i>Current Status: RAO</i>	E	0.91 / 4,806.67	-71	1039
175	RELEASE	WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD WAYLAND MA <i>RTN: 3-0024698</i> <i>Current Status: RAO</i>	E	0.91 / 4,806.67	-71	1041
175	RELEASE	NO LOCATION AID	484 BOSTON POST ROAD WAYLAND MA <i>RTN: 3-0034474</i> <i>Current Status: TIERI</i>	E	0.91 / 4,806.67	-71	1042

Executive Summary: Summary by Data Source

Standard

Federal

SEMS - SEMS List 8R Active Site Inventory

A search of the SEMS database, dated Aug 26, 2020 has found that there are 2 SEMS site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HUDSON LIGHT & POWER GENERATING STATION	77 CHERRY ST HUDSON MA 01749 <i>EPA ID: MAD980671051</i>	W	0.24 / 1,280.80	115
H LAROSSEE AND SONS INC	15 BROAD STREET HUDSON MA 01749-2501 <i>EPA ID: MAD980731624</i>	W	0.43 / 2,282.87	144

SEMS ARCHIVE - SEMS List 8R Archive Sites

A search of the SEMS ARCHIVE database, dated Aug 26, 2020 has found that there are 3 SEMS ARCHIVE site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 01776-2640 <i>EPA ID: MAN000103316</i>	E	0.06 / 323.49	10
A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 01749-2906 <i>EPA ID: MA0001296904</i>	WNW	0.13 / 673.05	27

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 01776-3441 <i>EPA ID: MA0001094572</i>	ESE	0.05 / 274.13	91

CERCLIS - Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS

A search of the CERCLIS database, dated Oct 25, 2013 has found that there are 5 CERCLIS site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 017762640 <i>Site EPA ID: MAN000103316</i>	E	0.06 / 323.49	10

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 017492906 <i>Site EPA ID: MA0001296904</i>	WNW	0.13 / 673.05	27
HUDSON LIGHT & POWER	CHERRY ST. STATION HUDSON MA 01749 <i>Site EPA ID: MAD980671051</i>	W	0.15 / 783.67	101
H LAROSSE AND SONS INC	15 BROAD STREET HUDSON MA 017492501 <i>Site EPA ID: MAD980731624</i>	W	0.43 / 2,282.87	144

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 017763441 <i>Site EPA ID: MA0001094572</i>	ESE	0.05 / 274.13	91

CERCLIS NFRAP - CERCLIS - No Further Remedial Action Planned

A search of the CERCLIS NFRAP database, dated Oct 25, 2013 has found that there are 3 CERCLIS NFRAP site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SUDBURY ROD AND GUN	33 BULKLEY ROAD SUDBURY MA 17762640 <i>Site EPA ID: MAN000103316</i>	E	0.06 / 323.49	10
A & M ADVANCED PROTOTYPES	8 KANE INDUSTRIAL DRIVE HUDSON MA 17492906 <i>Site EPA ID: MA0001296904</i>	WNW	0.13 / 673.05	27
PIERCE ROSE	46 MAPLE AVENUE SUDBURY MA 17763441 <i>Site EPA ID: MA0001094572</i>	ESE	0.05 / 274.13	91

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Jul 27, 2020 has found that there are 1 RCRA TSD site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RAYTHEON COMPANY	528 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID: MAD001410539</i>	ESE	0.39 / 2,042.35	41

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Jul 27, 2020 has found that there are 7 RCRA SQG site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PRECISION COATING CO INC	51 PARMENTER RD HUDSON MA 01749 <i>EPA Handler ID: MAD043399906</i>	WNW	0.13 / 694.02	5
ANVER CORPORATION	36 PARMENTER RD HUDSON MA 01749 <i>EPA Handler ID: MAC300096161</i>	WNW	0.09 / 486.70	12
CENTERLINE TECHNOLOGIES LLC	577 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAC300005709</i>	WNW	0.12 / 652.93	15
ALTERNATE FINISHING INC	15 KANE INDUSTRIAL DR HUDSON MA 01749 <i>EPA Handler ID: MAR000505123</i>	WNW	0.23 / 1,236.50	32
HUDSON LIGHT & POWER DEPT	77 CHERRY ST HUDSON MA 01749 <i>EPA Handler ID: MAD980671051</i>	W	0.24 / 1,280.80	115
HUDSON LIGHT & POWER DEPT	49 FOREST AVE HUDSON MA 01749 <i>EPA Handler ID: MAD000887180</i>	W	0.04 / 230.59	118

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
METHODS MACHINE TOOLS INC	65 UNION AVE SUDBURY MA 01776 <i>EPA Handler ID: MAD019659044</i>	ESE	0.14 / 731.78	55

RCRA CESQG - RCRA Conditionally Exempt and Very Small Quantity Generators List

A search of the RCRA CESQG database, dated Jul 27, 2020 has found that there are 19 RCRA CESQG site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LINCOLN TOOL & MACHINE CORP.	43 PARMENTER RD HUDSON MA 01749 <i>EPA Handler ID: MAR000545384</i>	WNW	0.09 / 462.02	7
HUDSON POLY BAG INC	578 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAR000577213</i>	WNW	0.18 / 964.82	16
MACH MACHINE INC	569 MAIN ST HUDSON MA 01749 <i>EPA Handler ID: MAD985297415</i>	WNW	0.07 / 394.11	18
HYPERTRONICS CORP	16 BRENT DR HUDSON MA 01749	WNW	0.23 / 1,214.14	20

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>EPA Handler ID: MAD980915813</i>			
A&S DELIVERY SERVICE INC	6 KANE INDUSTRIAL DR HUDSON MA 01749	WNW	0.10 / 521.83	<u>24</u>
	<i>EPA Handler ID: MAR000504878</i>			
PAO CORP	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	<u>30</u>
	<i>EPA Handler ID: MAR000554840</i>			
KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	<u>30</u>
	<i>EPA Handler ID: MAD981897077</i>			
KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	<u>30</u>
	<i>EPA Handler ID: MAD981209166</i>			
CONTRONAUTICS, INCORPORATED	31 WILKINS HUDSON MA 01749	WNW	0.07 / 372.65	<u>63</u>
	<i>EPA Handler ID: MAR000526368</i>			
KUSTOM KREATIONS INC	104 FOREST AVE HUDSON HUDSON MA 01749	W	0.00 / 7.29	<u>106</u>
	<i>EPA Handler ID: MAR000573824</i>			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
STAPLES CONTRACT AND COMMERCIAL	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	<u>51</u>
	<i>EPA Handler ID: MAC300093028</i>			
CHARLES J PRECOURT & SON INC	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	<u>53</u>
	<i>EPA Handler ID: MAR000535054</i>			
MOBIL 2477	432 BOSTON POST RD SUDBURY MA 01776	ESE	0.17 / 884.40	<u>64</u>
	<i>EPA Handler ID: MAD985296128</i>			
EXXONMOBIL OIL CORPORATION 01CY7	431 RTE 20 SUDBURY MA 01776	ESE	0.17 / 888.07	<u>65</u>
	<i>EPA Handler ID: MAD985296243</i>			
STATION ROAD AUTO BODY & GARAGE INC	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	<u>66</u>
	<i>EPA Handler ID: MAD982190373</i>			
COLONIAL AUTO OF SUDBURY	430 BOSTON POST RD SUDBURY MA 01776	ESE	0.14 / 759.70	<u>69</u>
	<i>EPA Handler ID: MAD980906911</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	71
	<i>EPA Handler ID: MAD019679059</i>			
SUDBURY PIZZA	426 BOSTON POST RD SUDBURY MA 01776	ESE	0.13 / 709.15	72
	<i>EPA Handler ID: MAR000567180</i>			
TJ MAXX T0281	437 BOSTON POST RD SUDBURY MA 01776	ESE	0.20 / 1,042.56	77
	<i>EPA Handler ID: MAR000544221</i>			

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Jul 27, 2020 has found that there are 24 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
INSTRUMENTATION LAB INC	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
	<i>EPA Handler ID: MAD982200099</i>			
ATLANTIC BUSINESS FORMS	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
	<i>EPA Handler ID: MAD004461885</i>			
LUND PRECISION PRODUCTS INC	571 MAIN ST HUDSON MA 01749	WNW	0.13 / 688.89	17
	<i>EPA Handler ID: MAD981062631</i>			
NORTHEAST GREAT DANE	17 BRENT DR HUDSON MA 01749	WNW	0.23 / 1,238.51	19
	<i>EPA Handler ID: MAD079525242</i>			
RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 01749	WNW	0.01 / 31.29	23
	<i>EPA Handler ID: MAD041701699</i>			
KORO CORP	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30
	<i>EPA Handler ID: MAD001408624</i>			
RR DONNELLY & SONS CO	555 MAIN ST HUDSON MA 01749	WNW	0.08 / 446.08	31
	<i>EPA Handler ID: MAD121006241</i>			
ARROW AUTOMOTIVE IND	555 MAIN ST HUDSON MA 01749	WNW	0.08 / 446.08	31
	<i>EPA Handler ID: MAD001062942</i>			
LOWFIELD REALTY GROUP 555 MAIN HUDSON LL	555 MAIN ST HUDSON MA 01749	WNW	0.08 / 446.08	31

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>EPA Handler ID: MAC300013851</i>			
SANDOZ COLORS & CHEMICALS	16 KANE INDUSTRIAL DR HUDSON MA 01740	WNW	0.24 / 1,245.09	<u>33</u>
	<i>EPA Handler ID: MAD075360602</i>			
ASSABET MACHINE CORP	78 CHERRY ST HUDSON MA 01749	W	0.24 / 1,292.28	<u>116</u>
	<i>EPA Handler ID: MAD081567877</i>			
<u>Lower Elevation</u>				
	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BEACON ROOFING SUPPLY	200 BAY DR SUDBURY MA 01776	ESE	0.23 / 1,227.62	<u>40</u>
	<i>EPA Handler ID: MAR000527127</i>			
I C TESTING INC	31 C UNION AVE SUDBURY MA 01776	ESE	0.02 / 127.73	<u>50</u>
	<i>EPA Handler ID: MAD055304604</i>			
COATINGS ENGR CORP	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	<u>51</u>
	<i>EPA Handler ID: MAD001063338</i>			
WORTHINGTON CYLINDERS	65 UNION ST REAR SUDBURY MA 01776	ESE	0.14 / 731.78	<u>55</u>
	<i>EPA Handler ID: MAC300102399</i>			
COMREX CORP	60 UNION AVE SUDBURY MA 01776	ESE	0.11 / 574.57	<u>56</u>
	<i>EPA Handler ID: MAD001071083</i>			
HYCOMP INC	75 UNION AVE SUDBURY MA 01776	ESE	0.18 / 930.42	<u>58</u>
	<i>EPA Handler ID: MAD048281240</i>			
STEVES AUTO BODY	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	<u>66</u>
	<i>EPA Handler ID: MAD019658582</i>			
SUDBURY CLEANERS	428 BOSTON POST RD SUDBURY MA 01776	ESE	0.15 / 777.52	<u>68</u>
	<i>EPA Handler ID: MAD091499897</i>			
FORMER DBA RITE AID 10106	423 BOSTON POST RD SUDBURY MA 01776	ESE	0.12 / 631.62	<u>73</u>
	<i>EPA Handler ID: MAC300021102</i>			
1 HR INSTANT PHOTO	410 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 480.71	<u>79</u>
	<i>EPA Handler ID: MAD985307750</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PEIRCE ROSE INC	60 MAPLE AVE SUDBURY MA 01776 <i>EPA Handler ID: MAD066616145</i>	ESE	0.05 / 253.23	92
SUDBURY AUTOMOTIVE INC	209 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID: MAV000011143</i>	ESE	0.05 / 283.47	109
PRAXAIR INC	141 BOSTON POST RD SUDBURY MA 01776 <i>EPA Handler ID: MAD001018357</i>	E	0.23 / 1,195.98	129

State

RELEASE - Waste Site Cleanup Notifications/Reportable Releases

A search of the RELEASE database, dated Sep 8, 2020 has found that there are 159 RELEASE site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
ABANDONED HOUSE	1073 CONCORD RD MARLBOROUGH MA <i>RTN: 2-0018760</i> <i>Current Status: RAO</i>	W	0.76 / 4,004.63	3
BOYD COATING RESEARCH CO	51 PARMENTER RD HUDSON MA <i>RTN: 2-0000248</i> <i>Current Status: RAO</i>	WNW	0.13 / 694.02	5
FMR BOYD COATINGS RESEARCH CO	51 PARMENTER ROAD HUDSON MA <i>RTN: 2-0020439</i> <i>Current Status: TIERI</i>	WNW	0.13 / 694.02	5
MA DFS FIREFIGHTING ACADEMY	664 SUDBURY RD STOW MA <i>RTN: 2-0021045</i> <i>Current Status: UNCLSS</i>	N	0.82 / 4,341.24	6
STATE FIRE ACADEMY STOW	1 STATE ROAD STOW MA <i>RTN: 2-0019241</i> <i>Current Status: PSNC</i>	NNW	0.75 / 3,984.24	8
FORMER ROD & GUN CLUB	33 BULKLEY RD SUDBURY MA <i>RTN: 3-0024573</i> <i>Current Status: RAO</i>	E	0.06 / 323.49	10
LAKE BOON SERVICE STATION	706 MAIN ST HUDSON MA <i>RTN: 2-0000261</i> <i>Current Status: DEPND5</i>	NW	0.35 / 1,834.46	11

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CITGO STATION	706 MAIN ST HUDSON MA <i>RTN: 2-0014026</i> <i>Current Status: RAO</i>	NW	0.35 / 1,834.46	11
CONTINENTAL CITGO	706 MAIN ST HUDSON MA <i>RTN: 2-0015576</i> <i>Current Status: REMOPS</i>	NW	0.35 / 1,834.46	11
FORMER CITGO	706 MAIN ST HUDSON MA <i>RTN: 2-0017095</i> <i>Current Status: RAONR</i>	NW	0.35 / 1,834.46	11
GELPKE RESIDENCE	53 LAKESIDE AVE HUDSON MA <i>RTN: 2-0015157</i> <i>Current Status: RAO</i>	NW	0.54 / 2,837.61	13
GELPKE RESIDENCE	53 LAKESIDE AVE HUDSON MA <i>RTN: 2-0015220</i> <i>Current Status: RAONR</i>	NW	0.54 / 2,837.61	13
KLAUK RESIDENCE	40 LAKESIDE AVE HUDSON MA <i>RTN: 2-0015407</i> <i>Current Status: RAO</i>	NW	0.46 / 2,437.59	14
JAMES GORIN REALTY TRUST	577 MAIN ST HUDSON MA <i>RTN: 2-0000204</i> <i>Current Status: WCSPRM</i>	WNW	0.12 / 652.93	15
SOUTH SIDE MAIN ST WEST OF PARMENTER RD	571 MAIN ST HUDSON MA <i>RTN: 2-0010785</i> <i>Current Status: RAO</i>	WNW	0.13 / 688.89	17
COMMERCIAL BUILDING	569 MAIN ST HUDSON MA <i>RTN: 2-0017024</i> <i>Current Status: RAO</i>	WNW	0.07 / 394.11	18
NO LOCATION AID	17 BRNT DRIVE HUDSON MA <i>RTN: 2-0017907</i> <i>Current Status: RAO</i>	WNW	0.23 / 1,238.51	19
HYPERTRONICS - HYPERTAC	16 BRENT DR. HUDSON MA <i>RTN: 2-0018206</i> <i>Current Status: RAO</i>	WNW	0.23 / 1,214.14	20
RESIDENCE	150 NORTH SHORE DR STOW MA <i>RTN: 2-0010012</i> <i>Current Status: RAO</i>	NW	0.55 / 2,879.18	21

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CHESTNUT STREET PFAS	308 CHESTNUT STREET HUDSON MA <i>RTN: 2-0020923</i> <i>Current Status: UNCLSS</i>	W	0.83 / 4,393.39	26
M&M DRILLING KANE PERKINS	560 MAIN ST HUDSON MA <i>RTN: 2-0000275</i> <i>Current Status: RAO</i>	WNW	0.07 / 355.90	30
HUDSON MAIN 555 LLC	555 MAIN ST HUDSON MA <i>RTN: 2-0016560</i> <i>Current Status: RAONR</i>	WNW	0.08 / 446.08	31
ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA <i>RTN: 2-0000068</i> <i>Current Status: RAO</i>	WNW	0.08 / 446.08	31
KANE INDUSTRIAL PARK	15 KANE INDUSTRIAL DR HUDSON MA <i>RTN: 2-0000515</i> <i>Current Status: DEPND</i>	WNW	0.23 / 1,236.50	32
BARTON ROAD NEIGHBORHOOD	220 AND 216 BARTON ROAD STOW MA <i>RTN: 2-0020337</i> <i>Current Status: TIER1D</i>	NW	0.52 / 2,723.67	34
RENTAL PROPERTY	63 BROOK ST HUDSON MA <i>RTN: 2-0013064</i> <i>Current Status: RAO</i>	WNW	0.45 / 2,399.08	35
WASTE MANAGEMENT INC	66 FORT MEADOW RD HUDSON MA <i>RTN: 2-0011278</i> <i>Current Status: RAO</i>	W	0.88 / 4,657.14	75
MASSACHUSETTS FIREFIGHTING ACADEMY	1 SUDBURY RD STOW MA <i>RTN: 2-0017327</i> <i>Current Status: RAO</i>	WNW	0.80 / 4,200.92	78
WASTE SOLUTIONS, INC	420 MAIN ST HUDSON MA <i>RTN: 2-0015477</i> <i>Current Status: RAO</i>	WNW	0.43 / 2,251.30	102
POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA <i>RTN: 2-0012541</i> <i>Current Status: RAO</i>	WNW	0.43 / 2,251.30	102
ZINA FARM	1 ZINA RD HUDSON MA <i>RTN: 2-0016208</i> <i>Current Status: TIER1D</i>	WNW	0.61 / 3,206.88	104

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MOREL FOREIGN AUTO REPAIR	406 MAIN ST HUDSON MA <i>RTN: 2-0000255</i> Current Status: RAO	WNW	0.39 / 2,047.25	108
LPM HOLDING INC	90 CHERRY ST HUDSON MA <i>RTN: 2-0015363</i> Current Status: DPS	W	0.26 / 1,363.83	112
HUDSON LIGHT & POWER DEPARTMENT	77 CHERRY ST HUDSON MA <i>RTN: 2-0017400</i> Current Status: RAO	W	0.24 / 1,280.80	115
PROPERTY	78 CHERRY STREET HUDSON MA <i>RTN: 2-0018467</i> Current Status: RAO	W	0.24 / 1,292.28	116
DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA <i>RTN: 2-0012171</i> Current Status: RAO	W	0.50 / 2,661.61	117
DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA <i>RTN: 2-0001049</i> Current Status: RAO	W	0.50 / 2,661.61	117
DIGITAL EQUIPMENT FACILITY	75 REED RD HUDSON MA <i>RTN: 2-0012116</i> Current Status: RAO	W	0.50 / 2,661.61	117
INTEL CENTRAL UTILITY BLDG	75 REED RD HUDSON MA <i>RTN: 2-0013852</i> Current Status: RAO	W	0.50 / 2,661.61	117
DIGITAL EQUIPMENT CORP	75 REED RD HUDSON MA <i>RTN: 2-0010471</i> Current Status: RAO	W	0.50 / 2,661.61	117
INTEL CORP BLDG HD2	75 REED RD HUDSON MA <i>RTN: 2-0014517</i> Current Status: RAO	W	0.50 / 2,661.61	117
INTEL CORP.	75 REED RD HUDSON MA <i>RTN: 2-0017100</i> Current Status: RAO	W	0.50 / 2,661.61	117
FORMER INTEL CO.	75 REED ROAD HUDSON MA <i>RTN: 2-0020485</i> Current Status: PSNC	W	0.50 / 2,661.61	117

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
DIESEL FUEL RELEASE	75 REED ROAD HUDSON MA <i>RTN: 2-0020935</i> <i>Current Status: PSNC</i>	W	0.50 / 2,661.61	117
HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA <i>RTN: 2-0010202</i> <i>Current Status: RAO</i>	W	0.04 / 230.59	118
LEVINS PROPERTY	1 HARVEY ST HUDSON MA <i>RTN: 2-0015087</i> <i>Current Status: RAO</i>	WNW	0.97 / 5,140.03	121
AFFORDABLE INTERIOR SYSTEMS	54 CHERRY ST HUDSON MA <i>RTN: 2-0015979</i> <i>Current Status: RAO</i>	W	0.23 / 1,220.74	122
QUALITY GAS	350 MAIN STREET HUDSON MA <i>RTN: 2-0019282</i> <i>Current Status: PSNC</i>	W	0.30 / 1,565.34	124
TOWER ST	350 MAIN ST HUDSON MA <i>RTN: 2-0010717</i> <i>Current Status: RAO</i>	W	0.30 / 1,565.34	124
ROADWAY RELEASE	8 STEVENS ROAD HUDSON MA <i>RTN: 2-0021281</i>	W	0.25 / 1,323.27	125
CARLTON ST	30 TOWER ST HUDSON MA <i>RTN: 2-0013390</i> <i>Current Status: DPS</i>	W	0.38 / 1,993.05	126
N E SMALL BUSINESS INVEST CORP	30 TOWER ST HUDSON MA <i>RTN: 2-0010326</i> <i>Current Status: RAO</i>	W	0.38 / 1,993.05	126
PARADISE GYM	312 MAIN ST HUDSON MA <i>RTN: 2-0013121</i> <i>Current Status: RAO</i>	W	0.30 / 1,588.81	127
MAIN AND TOWER PARTNERS LLC	312 MAIN ST HUDSON MA <i>RTN: 2-0017090</i> <i>Current Status: RAO</i>	W	0.30 / 1,588.81	127
LAPOINTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA <i>RTN: 2-0013687</i> <i>Current Status: RAO</i>	WNW	0.48 / 2,536.97	128

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
L AND S INDUSTRIAL PARK	34 TOWER ST HUDSON MA <i>RTN: 2-0000735</i> <i>Current Status: WCSPRM</i>	WNW	0.48 / 2,536.97	<u>128</u>
RESIDENTIAL PROPERTY	292 MAIN STREET HUDSON MA <i>RTN: 2-0019870</i> <i>Current Status: TIERI</i>	W	0.32 / 1,694.23	<u>130</u>
MR PROPERTY MANAGEMENT	262 SAWYER LN HUDSON MA <i>RTN: 2-0013741</i> <i>Current Status: RAO</i>	W	0.37 / 1,956.47	<u>131</u>
LOWER MAIN ST LLC C-O MR PROPERTY MGMT I	262 SAWYER LN HUDSON MA <i>RTN: 2-0014944</i> <i>Current Status: RAO</i>	W	0.37 / 1,956.47	<u>131</u>
MP DEVELOPMENT LLC	262 SAWYER LN HUDSON MA <i>RTN: 2-0015183</i> <i>Current Status: RAO</i>	W	0.37 / 1,956.47	<u>131</u>
G BONNAZOLI AND SONS INC	262 SAWYER LN HUDSON MA <i>RTN: 2-0012775</i> <i>Current Status: RAO</i>	W	0.37 / 1,956.47	<u>131</u>
HUDSON LAGOONS	12 WHEELER RD HUDSON MA <i>RTN: 2-0010526</i> <i>Current Status: RAO</i>	W	0.32 / 1,695.30	<u>132</u>
THORNDIKE PROPERTIES OF MA	12 WHEELER RD HUDSON MA <i>RTN: 2-0016411</i> <i>Current Status: RAO</i>	W	0.32 / 1,695.30	<u>132</u>
STOP & SHOP SUPERMARKET	10 TECHNOLOGY DR HUDSON MA <i>RTN: 2-0016344</i> <i>Current Status: RAO</i>	W	0.86 / 4,563.02	<u>133</u>
ST MICHAELS PARISH	246 MAIN ST HUDSON MA <i>RTN: 2-0015179</i> <i>Current Status: RAO</i>	W	0.40 / 2,137.55	<u>134</u>
TUCKS SERVICE CENTER	244 BROAD ST HUDSON MA <i>RTN: 2-0000938</i> <i>Current Status: RAO</i>	W	0.48 / 2,509.36	<u>135</u>
ACT MANUFACTURING CORP	TECHNOLOGY DR AND RTE 85 HUDSON MA <i>RTN: 2-0013377</i> <i>Current Status: RAO</i>	W	0.88 / 4,662.48	<u>137</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TUCKS TRUCKS	242 244 WASHINGTON ST HUDSON MA <i>RTN: 2-0013492</i> <i>Current Status: RAO</i>	W	0.79 / 4,191.72	138
INDEPENDENT CABLE	43 BROAD ST HUDSON MA <i>RTN: 2-0010063</i> <i>Current Status: RAO</i>	W	0.41 / 2,155.67	141
HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA <i>RTN: 2-0012725</i> <i>Current Status: RAO</i>	W	0.41 / 2,155.67	141
TEST DEVICES INC	6 LORING ST HUDSON MA <i>RTN: 2-0011703</i> <i>Current Status: RAO</i>	W	0.43 / 2,277.42	143
PROPERTY	15 BROAD STREET HUDSON MA <i>RTN: 2-0018830</i> <i>Current Status: TIER1D</i>	W	0.43 / 2,282.87	144
SHELL GASOLINE STATION	181 MAIN ST HUDSON MA <i>RTN: 2-0016273</i> <i>Current Status: RAO</i>	W	0.45 / 2,386.69	145
KM HIGH STREET LLC	186 MAIN STREET HUDSON MA <i>RTN: 2-0019510</i> <i>Current Status: PSNC</i>	W	0.46 / 2,424.31	148
DIESEL FUEL LEAK	133 COX ST HUDSON MA <i>RTN: 2-0013998</i> <i>Current Status: RAO</i>	WNW	0.94 / 4,940.34	151
HOUGHTON STREET LLC	50 HOUGHTON ST HUDSON MA <i>RTN: 2-0015202</i> <i>Current Status: RAO</i>	W	0.53 / 2,795.82	152
THOMAS TAYLOR & SONS	52-54 HOUGHTON ST HUDSON MA <i>RTN: 2-0000524</i> <i>Current Status: RAO</i>	W	0.53 / 2,805.01	153
SHOE FACTORY FMR	1 HOUGHTON ST HUDSON MA <i>RTN: 2-0000922</i> <i>Current Status: RAO</i>	W	0.53 / 2,783.96	154
THOMAS TAYLOR & SONS	49 HOUGHTON ST HUDSON MA <i>RTN: 2-0011299</i> <i>Current Status: RAO</i>	W	0.53 / 2,790.41	155

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FORMER LARKIN LUMBER	136 MAIN STREET HUDSON MA <i>RTN: 2-0019349</i> <i>Current Status: PSNC</i>	W	0.54 / 2,861.59	156
CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0013611</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	157
CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0016604</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	157
CUMBERLAND FARMS	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0011145</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	157
CUMBERLAND FARMS INC	200 WASHINGTON ST HUDSON MA <i>RTN: 2-0015666</i> <i>Current Status: RAO</i>	W	0.75 / 3,937.61	157
PURDY PROPERTY	191A WASHINGTON ST HUDSON MA <i>RTN: 2-0016830</i> <i>Current Status: RAO</i>	W	0.74 / 3,884.50	158
COMMERCIAL PROPERTY	173 WASHINGTON STREET HUDSON MA <i>RTN: 2-0018043</i> <i>Current Status: PSC</i>	W	0.73 / 3,844.12	160
HUDSON SENIOR CENTER	29 CHURCH ST HUDSON MA <i>RTN: 2-0017550</i> <i>Current Status: RAO</i>	W	0.64 / 3,390.22	161
WASTE MANAGEMENT INC	154 WASHINGTON AVE HUDSON MA <i>RTN: 2-0013689</i> <i>Current Status: RAO</i>	W	0.72 / 3,816.77	162
CELLUCI HUDSON CORP	153 WASHINGTON ST HUDSON MA <i>RTN: 2-0010317</i> <i>Current Status: RAO</i>	W	0.73 / 3,845.20	163
RJ CURLEY & SONS PROPERTY	152 MANNING ST LOT 234 HUDSON MA <i>RTN: 2-0018565</i> <i>Current Status: RAO</i>	WNW	0.96 / 5,085.52	165
MAIN ST ROTARY	32 MAIN ST HUDSON MA <i>RTN: 2-0020579</i> <i>Current Status: PSNC</i>	W	0.72 / 3,788.60	166

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	28 WASHINGTON STREET HUDSON MA <i>RTN: 2-0020026</i> <i>Current Status: PSC</i>	W	0.72 / 3,817.14	167
STAR ENT FACILITY 11 143 1315	27 WASHINGTON ST HUDSON MA <i>RTN: 2-0001051</i> <i>Current Status: RAO</i>	W	0.74 / 3,917.52	168
TEXACO STA FMR	27 WASHINGTON ST HUDSON MA <i>RTN: 2-0011920</i> <i>Current Status: RAO</i>	W	0.74 / 3,917.52	168
DFL LAKE STREET LLC	29 & 39 LAKE STREET HUDSON MA <i>RTN: 2-0020652</i> <i>Current Status: PSC</i>	WNW	0.86 / 4,540.98	169
CREATIVE HOME FURNISHINGS	32 WASHINGTON ST HUDSON MA <i>RTN: 2-0000069</i> <i>Current Status: RAO</i>	W	0.75 / 3,974.20	170
BAKER COMMODITIES	32 36 WASHINGTON ST HUDSON MA <i>RTN: 2-0012183</i> <i>Current Status: RAO</i>	W	0.76 / 3,991.53	171
DIESEL FUEL RELEASE	LINCOLN AND APSLEY ST HUDSON MA <i>RTN: 2-0020422</i> <i>Current Status: PSNC</i>	W	0.94 / 4,938.97	172
INTERSECTION RTE 62	29 RIVER ST HUDSON MA <i>RTN: 2-0014213</i> <i>Current Status: RAO</i>	W	0.89 / 4,709.85	173
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	161 DUTTON RD SUDBURY MA <i>RTN: 3-0020880</i> <i>Current Status: RAO</i>	SE	0.64 / 3,384.85	2
NO LOCATION AID	17 HOWELL ST SUDBURY MA <i>RTN: 3-0025370</i> <i>Current Status: RAO</i>	ESE	0.49 / 2,600.97	36
BARTLETTS GREENHOUSE	578 BOSTON POST RD SUDBURY MA <i>RTN: 3-0003267</i> <i>Current Status: RAO</i>	ESE	0.48 / 2,539.93	38

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RESIDENTIAL COMMUNITY	200 BAY DRIVE SUDBURY MA <i>RTN: 3-0035104</i> <i>Current Status: PSNC</i>	ESE	0.23 / 1,227.62	40
NO LOCATION AID	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0027243</i> <i>Current Status: TIERI</i>	ESE	0.39 / 2,042.35	41
RAYTHEON EAST DRIVEWAY	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0017106</i> <i>Current Status: RAO</i>	ESE	0.39 / 2,042.35	41
RAYTHEON COMPANY	528 BOSTON POST RD SUDBURY MA <i>RTN: 3-0003037</i> <i>Current Status: PENNFA</i>	ESE	0.39 / 2,042.35	41
SUNRISE CLEANERS	523 BOSTON POST RD SUDBURY MA <i>RTN: 3-0015591</i> <i>Current Status: RAONR</i>	ESE	0.37 / 1,934.08	43
SUNRISE CLEANERS	523 BOSTON POST RD SUDBURY MA <i>RTN: 3-0004339</i> <i>Current Status: RAO</i>	ESE	0.37 / 1,934.08	43
RESIDENCE	47 MARLBOROUGH RD STOW MA <i>RTN: 2-0013499</i> <i>Current Status: RAO</i>	WNW	0.17 / 880.39	44
RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN: 3-0015872</i> <i>Current Status: RAO</i>	ESE	0.29 / 1,556.57	45
RTE 20	475 BOSTON POST RD SUDBURY MA <i>RTN: 3-0015951</i> <i>Current Status: RAO</i>	ESE	0.29 / 1,556.57	45
SOUSA	477 BOSTON POST RD SUDBURY MA <i>RTN: 3-0000602</i> <i>Current Status: RAO</i>	ESE	0.29 / 1,555.93	46
CUMBERLAND FARMS	470 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0029588</i> <i>Current Status: RAONR</i>	ESE	0.26 / 1,370.95	47

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CUMBERLAND FARMS	470 BOSTON POST RD SUDBURY MA <i>RTN: 3-0023429</i> <i>Current Status: RAONR</i>	ESE	0.26 / 1,370.95	47
CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA <i>RTN: 3-0004202</i> <i>Current Status: RAO</i>	ESE	0.26 / 1,370.95	47
MOBIL STATION	465 BOSTON POST RD SUDBURY MA <i>RTN: 3-0002341</i> <i>Current Status: RAO</i>	ESE	0.26 / 1,390.43	48
NO LOCATION AID	239 NOBSCOT RD SUDBURY MA <i>RTN: 3-0026639</i> <i>Current Status: RAO</i>	ESE	0.30 / 1,576.70	49
INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA <i>RTN: 3-0004668</i> <i>Current Status: DPS</i>	ESE	0.30 / 1,576.70	49
COATINGS ENGINEERING	33 UNION RD SUDBURY MA <i>RTN: 3-0000074</i> <i>Current Status: RAO</i>	ESE	0.03 / 173.74	51
MULLEN LUMBER	39 UNION AVE SUDBURY MA <i>RTN: 3-0002640</i> <i>Current Status: RAO</i>	ESE	0.04 / 201.52	52
FUEL DEPOT FMR	450 BOSTON POST RD SUDBURY MA <i>RTN: 3-0004638</i> <i>Current Status: RAO</i>	ESE	0.20 / 1,030.15	57
UNION PALMER REALTY TRUST	80 UNION AVE SUDBURY MA <i>RTN: 3-0003371</i> <i>Current Status: RAO</i>	ESE	0.19 / 987.05	59
15 UNION AVENUE	15 UNION AVE SUDBURY MA <i>RTN: 3-0014107</i> <i>Current Status: RAO</i>	ESE	0.09 / 452.87	61
MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0028383</i> <i>Current Status: RAO</i>	ESE	0.17 / 884.40	64

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0028384</i> <i>Current Status: RAO</i>	ESE	0.17 / 884.40	64
MOBIL SERVICE STA #10381 (FRMR 01-474)	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0026036</i> <i>Current Status: RAONR</i>	ESE	0.17 / 884.40	64
MOBIL STATION 01-474	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0024771</i> <i>Current Status: RAONR</i>	ESE	0.17 / 884.40	64
MOBIL SERVICE STATION 01-474	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0023726</i> <i>Current Status: RAONR</i>	ESE	0.17 / 884.40	64
MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0002423</i> <i>Current Status: RAO</i>	ESE	0.17 / 884.40	64
CHISWICK PROPERTIES FMR	BOSTON POST ROAD UNION ST SUDBURY MA <i>RTN: 3-0000020</i> <i>Current Status: RAO</i>	ESE	0.16 / 834.61	67
SUDBURY CLEANERS	428 BOSTON POST RD SUDBURY MA <i>RTN: 3-0010592</i> <i>Current Status: REMOPS</i>	ESE	0.15 / 777.52	68
NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0030065</i> <i>Current Status: RAO</i>	ESE	0.14 / 745.84	70
SUDBURY PIZZA	426 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0035807</i> <i>Current Status: PSNC</i>	ESE	0.13 / 709.15	72
FAHEY EXHIBITS BUILDING	501 GLEASONDALE RD STOW MA <i>RTN: 2-0000427</i> <i>Current Status: RAO</i>	WNW	0.57 / 3,024.48	74
GLEASONDALE MILL	501 GLEASONDALE ROAD STOW MA <i>RTN: 2-0021116</i> <i>Current Status: UNCLSS</i>	WNW	0.57 / 3,024.48	74

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MIDDLEBORO TRAIN YARD	1 STATION RD MIDDLEBOROUGH MA <i>RTN: 4-0022510</i> <i>Current Status: RAO</i>	ESE	0.01 / 43.46	81
BEHIND MACKINNONS LIQUOR	5 CONCORD RD SUDBURY MA <i>RTN: 3-0026018</i> <i>Current Status: RAO</i>	ESE	0.13 / 683.06	83
GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA <i>RTN: 3-0001153</i> <i>Current Status: RAO</i>	ESE	0.10 / 506.68	100
NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0033240</i> <i>Current Status: TIERII</i>	ESE	0.05 / 283.47	109
NO LOCATION AID	BOSTON POST ROAD AT LANDHAM RD SUDBURY MA <i>RTN: 3-0027224</i> <i>Current Status: URAM</i>	ESE	0.05 / 268.70	111
BUDDY DOG ANIMAL HOSPITAL	163 BOSTON POST RD SUDBURY MA <i>RTN: 3-0018895</i> <i>Current Status: RAO</i>	E	0.14 / 719.53	123
UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA <i>RTN: 3-0002545</i> <i>Current Status: WCSPRM</i>	E	0.23 / 1,195.98	129
RICHEY & CLAPPER LANDSCAPE SUPPLY CO.	33 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0029754</i> <i>Current Status: RAO</i>	E	0.36 / 1,922.68	136
BELL TELL MANHOLE 206	20 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0029909</i> <i>Current Status: ADQREG</i>	E	0.37 / 1,967.39	139
BELL TELL MANHOLE 206	20 BOSTON POST RD SUDBURY MA <i>RTN: 3-0023624</i> <i>Current Status: ADQREG</i>	E	0.37 / 1,967.39	139
SUDBURY TRANSFER STATION	20 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0033503</i> <i>Current Status: ADQREG</i>	E	0.37 / 1,967.39	139

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
DPW TRANSFER STATION	20 BOSTON POST RD SUDBURY MA <i>RTN: 3-0017083</i> <i>Current Status: RAO</i>	E	0.37 / 1,967.39	139
SUDBURY LANDFILL	20 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0034148</i> <i>Current Status: PSNC</i>	E	0.37 / 1,967.39	139
NO LOCATION AID	83 BOSTON POST RD SUDBURY MA <i>RTN: 3-0021843</i> <i>Current Status: DPS</i>	E	0.38 / 1,990.43	140
MA HWY DEPT DEPOT	RT 20 BOSTON POST RD SUDBURY MA <i>RTN: 3-0010426</i> <i>Current Status: RAO</i>	E	0.38 / 2,014.85	142
NO LOCATION AID	6 OLD COUNTY RD SUDBURY MA <i>RTN: 3-0025622</i> <i>Current Status: RAO</i>	E	0.52 / 2,727.58	147
NO LOCATION AID	19 HAWTHORNE ROAD SUDBURY MA <i>RTN: 3-0030271</i> <i>Current Status: RAO</i>	ESE	0.45 / 2,355.26	149
PROPERTY	533 BOSTON POST RD WAYLAND MA <i>RTN: 3-0003351</i> <i>Current Status: RAO</i>	E	0.43 / 2,278.26	150
MUNICIPAL ROADWAY	NEARBY 44 RIVER ROAD WAYLAND MA <i>RTN: 3-0031870</i> <i>Current Status: RAO</i>	E	0.91 / 4,820.51	159
WATERS MANUFACTURING	522 BOSTON POST RD LONGFELLOW WAYLAND MA <i>RTN: 3-0000059</i> <i>Current Status: RAO</i>	E	0.61 / 3,205.91	164
PLANNED RIVERS EDGE DEVELOPMENT	484-490 BOSTON POST ROAD WAYLAND MA <i>RTN: 3-0036013</i> <i>Current Status: UNCLSS</i>	E	0.91 / 4,786.26	174
NEAR LANDFILL	484 BOSTON POST RD WAYLAND MA <i>RTN: 3-0027741</i> <i>Current Status: RAO</i>	E	0.91 / 4,806.67	175

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WAYLAND SAND HILL LANDFILL	484 BOSTON POST RD WAYLAND MA <i>RTN: 3-0024698</i> <i>Current Status: RAO</i>	E	0.91 / 4,806.67	175
NO LOCATION AID	484 BOSTON POST ROAD WAYLAND MA <i>RTN: 3-0034474</i> <i>Current Status: TIERI</i>	E	0.91 / 4,806.67	175

DELISTED REL - Delisted Waste Site Cleanup Notification Sites

A search of the DELISTED REL database, dated Sep 8, 2020 has found that there are 1 DELISTED REL site(s) within approximately 1.00 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CHILDCARE CENTER	522 BOSTON POST ROAD WAYLAND MA 01778-0000	E	0.61 / 3,205.91	164

SWF/LF - Solid Waste Facilities

A search of the SWF/LF database, dated Jan 14, 2020 has found that there are 3 SWF/LF site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HUDSON TRANSFER STATION	300 COX ST HUDSON, MA 01749 MA	WNW	0.34 / 1,781.68	97

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SUDBURY TRANSFER & RECYCLING CENTER	20 BOSTON POST RD SUDBURY, MA 01776 MA	E	0.37 / 1,967.39	139
SUDBURY SAND HILL LANDFILL	20 BOSTON POST RD SUDBURY, MA 01776 MA	E	0.37 / 1,967.39	139

LST - Tank Related Leaks and Spills

A search of the LST database, dated Sep 8, 2017 has found that there are 21 LST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FORMER CITGO	706 MAIN ST HUDSON MA 01749-0000 <i>Site No Current Date Status Desc: 2-0017095 9/18/2008 Release Tracking Number Closed</i>	NW	0.35 / 1,834.46	11
CONTINENTAL CITGO	706 MAIN ST HUDSON MA 01749-0000	NW	0.35 / 1,834.46	11

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Site No Current Date Status Desc: 2-0015576 6/1/2010 Remedy Operation Status				
POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA 01749-0000	WNW	0.43 / 2,251.30	102
Site No Current Date Status Desc: 2-0012541 5/13/1999 Response Action Outcome				
HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 1749	W	0.04 / 230.59	118
Site No Current Date Status Desc: 2-0010202 4/19/1994 Response Action Outcome				
TOWER ST	350 MAIN ST HUDSON MA 01749-0000	W	0.30 / 1,565.34	124
Site No Current Date Status Desc: 2-0010717 6/8/1999 Response Action Outcome				
LAPORTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA 01749-0000	WNW	0.48 / 2,536.97	128
Site No Current Date Status Desc: 2-0013687 2/20/2002 Response Action Outcome				
L & S INDUSTRIAL PARK	34 TOWER ST HUDSON MA 1749	WNW	0.48 / 2,536.97	128
Site No Current Date Status Desc: 2-0000735 6/21/1995 Waiver Completion Statement				
G BONNAZOLI AND SONS INC	262 SAWYER LN HUDSON MA 01749-0000	W	0.37 / 1,956.47	131
Site No Current Date Status Desc: 2-0012775 7/25/2000 Response Action Outcome				
HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA 01749-0000	W	0.41 / 2,155.67	141
Site No Current Date Status Desc: 2-0012725 5/28/1999 Response Action Outcome				
SHELL GASOLINE STATION	181 MAIN ST HUDSON MA 01749-0000	W	0.45 / 2,386.69	145
Site No Current Date Status Desc: 2-0016273 5/29/2007 Response Action Outcome				
Lower Elevation				
RTE 20	475 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.29 / 1,556.57	45
Site No Current Date Status Desc: 3-0015872 3/3/1998 Response Action Outcome				
RTE 20	475 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.29 / 1,556.57	45
Site No Current Date Status Desc: 3-0015951 10/3/2007 Response Action Outcome				
CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.26 / 1,370.95	47
Site No Current Date Status Desc: 3-0004202 2/5/2009 Response Action Outcome				
MOBIL STATION	465 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.26 / 1,390.43	48
Site No Current Date Status Desc: 3-0002341 9/20/2006 Response Action Outcome				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA 01776-0000	ESE	0.30 / 1,576.70	49
<i>Site No Current Date Status Desc: 3-0004668 9/24/2001 Downgradient Property Status</i>				
15 UNION AVENUE	15 UNION AVE SUDBURY MA 01776-0000	ESE	0.09 / 452.87	61
<i>Site No Current Date Status Desc: 3-0014107 4/3/2002 Response Action Outcome</i>				
MOBIL STATION	432 BOSTON POST RD SUDBURY MA 01776-0000	ESE	0.17 / 884.40	64
<i>Site No Current Date Status Desc: 3-0002423 9/13/2006 Response Action Outcome</i>				
NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA 01776-3011	ESE	0.14 / 745.84	70
<i>Site No Current Date Status Desc: 3-0030065 8/4/2011 Response Action Outcome</i>				
NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA 01776-0000	ESE	0.05 / 283.47	109
<i>Site No Current Date Status Desc: 3-0033240 11/8/2016 Tier 2</i>				
UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA 1776	E	0.23 / 1,195.98	129
<i>Site No Current Date Status Desc: 3-0002545 3/11/1996 Waiver Completion Statement</i>				
MA HWY DEPT DEPOT	RT 20 BOSTON POST RD SUDBURY MA 01776-0000	E	0.37 / 1,967.39	139
<i>Site No Current Date Status Desc: 3-0010426 7/27/1995 Response Action Outcome</i>				

LUST - Leaking Underground Storage Tanks (LUST)

A search of the LUST database, dated Sep 8, 2020 has found that there are 23 LUST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CONTINENTAL CITGO	706 MAIN ST HUDSON MA	NW	0.35 / 1,834.46	11
<i>RTN: 2-0015576</i>				
FORMER CITGO	706 MAIN ST HUDSON MA	NW	0.35 / 1,834.46	11
<i>RTN: 2-0017095</i>				
ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA	WNW	0.08 / 446.08	31
<i>RTN: 2-0000068</i>				
POPLINS FURNITURE WAREHOUSE	420 MAIN ST HUDSON MA	WNW	0.43 / 2,251.30	102
<i>RTN: 2-0012541</i>				
HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA	W	0.04 / 230.59	118

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>RTN: 2-0010202</i>			
TOWER ST	350 MAIN ST HUDSON MA	W	0.30 / 1,565.34	124
	<i>RTN: 2-0010717</i>			
LAPOINTE MACHINE TOOL CO FMR	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	128
	<i>RTN: 2-0013687</i>			
L AND S INDUSTRIAL PARK	34 TOWER ST HUDSON MA	WNW	0.48 / 2,536.97	128
	<i>RTN: 2-0000735</i>			
G BONNAZOLI AND SONS INC	262 SAWYER LN HUDSON MA	W	0.37 / 1,956.47	131
	<i>RTN: 2-0012775</i>			
HUDSON WORSLED CO FORMER	43 BROAD ST HUDSON MA	W	0.41 / 2,155.67	141
	<i>RTN: 2-0012725</i>			
SHELL GASOLINE STATION	181 MAIN ST HUDSON MA	W	0.45 / 2,386.69	145
	<i>RTN: 2-0016273</i>			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RTE 20	475 BOSTON POST RD SUDBURY MA	ESE	0.29 / 1,556.57	45
	<i>RTN: 3-0015951</i>			
RTE 20	475 BOSTON POST RD SUDBURY MA	ESE	0.29 / 1,556.57	45
	<i>RTN: 3-0015872</i>			
CUMBERLAND FARMS/GULF	470 BOSTON POST RD SUDBURY MA	ESE	0.26 / 1,370.95	47
	<i>RTN: 3-0004202</i>			
MOBIL STATION	465 BOSTON POST RD SUDBURY MA	ESE	0.26 / 1,390.43	48
	<i>RTN: 3-0002341</i>			
INTERSTATE GAS & OIL	239 NOBSCOT RD SUDBURY MA	ESE	0.30 / 1,576.70	49
	<i>RTN: 3-0004668</i>			
15 UNION AVENUE	15 UNION AVE SUDBURY MA	ESE	0.09 / 452.87	61
	<i>RTN: 3-0014107</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MOBIL STATION	432 BOSTON POST RD SUDBURY MA <i>RTN: 3-0002423</i>	ESE	0.17 / 884.40	64
NO LOCATION AID	425 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0030065</i>	ESE	0.14 / 745.84	70
SUDBURY PIZZA	426 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0035807</i>	ESE	0.13 / 709.15	72
NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA <i>RTN: 3-0033240</i>	ESE	0.05 / 283.47	109
UNION CARBIDE LINDE DIV	141 BOSTON POST RD SUDBURY MA <i>RTN: 3-0002545</i>	E	0.23 / 1,195.98	129
MA HWY DEPT DEPOT	RT 20 BOSTON POST RD SUDBURY MA <i>RTN: 3-0010426</i>	E	0.38 / 2,014.85	142

LAST - Leaking Aboveground Storage Tanks (LAST)

A search of the LAST database, dated Sep 8, 2020 has found that there are 10 LAST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
KLAUK RESIDENCE	40 LAKESIDE AVE HUDSON MA <i>RTN: 2-0015407</i>	NW	0.46 / 2,437.59	14
ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA <i>RTN: 2-0000068</i>	WNW	0.08 / 446.08	31
RENTAL PROPERTY	63 BROOK ST HUDSON MA <i>RTN: 2-0013064</i>	WNW	0.45 / 2,399.08	35
HUDSON LIGHT & POWER DEPARTMENT	77 CHERRY ST HUDSON MA <i>RTN: 2-0017400</i>	W	0.24 / 1,280.80	115
TEST DEVICES INC	6 LORING ST HUDSON MA <i>RTN: 2-0011703</i>	W	0.43 / 2,277.42	143

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	17 HOWELL ST SUDBURY MA <i>RTN: 3-0025370</i>	ESE	0.49 / 2,600.97	36
RESIDENCE	47 MARLBOROUGH RD STOW MA <i>RTN: 2-0013499</i>	WNW	0.17 / 880.39	44
UNION PALMER REALTY TRUST	80 UNION AVE SUDBURY MA <i>RTN: 3-0003371</i>	ESE	0.19 / 987.05	59
BEHIND MACKINNONS LIQUOR	5 CONCORD RD SUDBURY MA <i>RTN: 3-0026018</i>	ESE	0.13 / 683.06	83
DPW TRANSFER STATION	20 BOSTON POST RD SUDBURY MA <i>RTN: 3-0017083</i>	E	0.37 / 1,967.39	139

HIST LUST - Historic Leaking Underground Storage Tanks that occurred prior to October 1st 1993

A search of the HIST LUST database, dated Prior to Oct 1, 1993 has found that there are 10 HIST LUST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	457N MAIN STREET HUDSON MA <i>Spill ID Case Closed: C88-0102 YES</i>	WNW	0.02 / 127.79	88
BELOW GND TANK REMOVAL	422 MAIN ST. HUDSON MA <i>Spill ID Case Closed: C89-0213 YES</i>	WNW	0.39 / 2,083.56	99
CONTAM. SOIL	34 TOWER STREET HUDSON MA <i>Spill ID Case Closed: C90-0012 YES</i>	WNW	0.48 / 2,536.97	128
TANK REMOVAL	43 BROAD ST. HUDSON MA <i>Spill ID Case Closed: C92-0247 YES</i>	W	0.41 / 2,155.67	141
TUCK'S SERVICE CENTER	WASHINGTON ST. AND BROAD ST. HUDSON MA <i>Spill ID Case Closed: C92-0095 YES</i>	W	0.45 / 2,357.30	146
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	578 BOSTON POST RD; RTE 20 SUDBURY MA <i>Spill ID Case Closed: N88-1159 YES</i>	ESE	0.48 / 2,539.93	38

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
STORM DRAIN OUTFALL	239 NOBSCOT RD SUDBURY MA	ESE	0.30 / 1,576.70	49
	<i>Spill ID Case Closed: N93-0018 YES</i>			
SUDBURY MOBIL	423 BOSTON POST RD SUDBURY MA	ESE	0.12 / 631.62	73
	<i>Spill ID Case Closed: N92-1121 YES</i>			
SUDBURY AUTOMOTIVE	RTE 20 @ LANHAM RD SUDBURY MA	ESE	0.05 / 268.70	111
	<i>Spill ID Case Closed: N91-1290 YES</i>			
	141 BOSTON POST RD SUDBURY MA	E	0.23 / 1,195.98	129
	<i>Spill ID Case Closed: N88-0430 YES</i>			

HIST LAST - Historic Leaking Aboveground Storage Tanks that occurred prior to October 1st 1993

A search of the HIST LAST database, dated Prior to Oct 1, 1993 has found that there are 2 HIST LAST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WARMER FUEL OIL CO.	BROAD & WASHINGTON ST. HUDSON MA	W	0.45 / 2,357.30	146
	<i>Spill ID Case Closed: C85-0179 YES</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
UNION & PALMER REALTY TRUST	80 UNION STREET SUDBURY MA	ESE	0.19 / 987.05	59
	<i>Spill ID Case Closed: N89-1502 YES</i>			

UST - Underground Storage Tanks (UST)

A search of the UST database, dated Sep 30, 2020 has found that there are 16 UST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WVJV-TV TRANSMITTER SITE	111 PARMENTER RD HUDSON MA 01749	WNW	0.23 / 1,228.11	4
	<i>Facility ID: 9936 Tank ID Status Status Date: 1 Tank Removed 19-Mar-1990</i>			
SILVER KING BROADCASTING OF MA	71 PARMENTER RD HUDSON MA 01749	WNW	0.04 / 207.98	9
	<i>Facility ID: 19417 Tank ID Status Status Date: 1 Tank Removed 10-Jan-1990</i>			
E H PERKINS CONSTRUCTION INC	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30
	<i>Facility ID: 9946 Tank ID Status Status Date: 3 Tank Removed 24-Jan-1999, 2 Tank Removed 24-Jan-1999, 1 Tank Removed 24-Jan-1999</i>			

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MOBIL LUBE AND OIL	457 MAIN ST HUDSON MA 01749	WNW	0.06 / 320.80	90
	<i>Facility ID: 19415 Tank ID Status Status Date: 3 In Use , 1 In Use , 2 In Use </i>			
TOWN OF HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	118
	<i>Facility ID: 9934 Tank ID Status Status Date: 1 Tank Removed 20-Oct-1997</i>			
STOCKROOM (OLD)	CHERRY ST HUDSON MA 01749	W	0.23 / 1,208.65	120
	<i>Facility ID: 9933 Tank ID Status Status Date: 1 Tank Removed 01-Apr-1989</i>			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
COATINGS ENGINEERING CORP	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	51
	<i>Facility ID: 11009 Tank ID Status Status Date: 4 Tank Removed 10-Jun-1987, 7 Tank Removed 10-Jun-1987, 2 Tank Removed 10-Jun-1987, 6 Tank Removed 10-Jun-1987, 3 Tank Removed 10-Jun-1987, 8 Tank Removed 10-Jun-1987, 1 Tank Removed 10-Jun-1987, 9 Tank Removed 10-Jun-1987, 5 Tank Removed 10-Jun-1987, 10 Tank Removed 10-Jun-1987</i>			
UNION AVE REALTY	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	53
	<i>Facility ID: 10992 Tank ID Status Status Date: 1 Tank Closure In-Place 22-Sep-2010</i>			
E H PERKINS CONSTRUCTION INC	50 UNION AVE SUDBURY MA 01776	ESE	0.06 / 315.40	54
	<i>Facility ID: 10995 Tank ID Status Status Date: 1 Tank Removed 10-Jun-1987, 2 Tank Removed 10-Jun-1987</i>			
ERNEST SCHOFIELD	80 UNION AVE SUDBURY MA 01776	ESE	0.19 / 987.05	59
	<i>Facility ID: 10999 Tank ID Status Status Date: 3 Tank Removed 01-Jan-1985, 1 Tank Removed 01-Jan-1985, 2 Tank Removed 01-Jan-1985</i>			
MULLEN LUMBER CO INC	28 UNION AVE SUDBURY MA 01776	ESE	0.07 / 355.76	60
	<i>Facility ID: 10991 Tank ID Status Status Date: 1 Tank Removed 05-May-1993</i>			
SUDBURY MOBIL	432 BOSTON POST RD SUDBURY MA 01776	ESE	0.17 / 884.40	64
	<i>Facility ID: 11006 Tank ID Status Status Date: 5 Tank Removed 14-Jun-1989, 3 Tank Removed 05-May-1993, 4 Tank Removed 14-Jun-1989, 9 Tank Removed 05-Nov-2008, 6 In Use , 10 Tank Removed 05-Nov-2008, 1 Tank Removed 14-Jun-1989, 8 Tank Closure In-Place 05-Apr-2019, 7 In Use , 2 Tank Removed 14-Jun-1989</i>			
VERIZON MASSACHUSETTS #568506	351 BOSTON POST RD SUDBURY MA 01776	ESE	0.12 / 659.51	89

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>Facility ID: 10996</i>			
SUDBURY GETTY	227 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 459.18	105
	<i>Facility ID: 11002</i> <i>Tank ID Status Status Date: 2 Tank Removed 05-May-1992, 3 Tank Removed 05-May-1992, 1 Tank Removed 05-May-1992</i>			
SUDBURY AUTOMOTIVE	209 BOSTON POST RD SUDBURY MA 01776	ESE	0.05 / 283.47	109
	<i>Facility ID: 11003</i> <i>Tank ID Status Status Date: 1 Tank Removed 03-Nov-2015, 3 Tank Removed 03-Nov-2015, 2 Tank Removed 03-Nov-2015, 6 In Use 22-Jan-2016, 5 In Use 22-Jan-2016, 4 Tank Removed 01-Jan-2002</i>			
LINDE GASES OF NEW ENGLAND INC	141 BOSTON POST RD SUDBURY MA 01776	E	0.23 / 1,195.98	129
	<i>Facility ID: 20615</i> <i>Tank ID Status Status Date: 1 Tank Removed 01-Dec-1988, 2 Tank Removed 01-Dec-1988, 3 Tank Removed 04-Apr-1988</i>			

AST - Aboveground Storage Tanks

A search of the AST database, dated Aug 4, 2020 has found that there are 4 AST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HUDSON LIGHT & POWER DEPT - CHERRY ST	77 CHERRY ST HUDSON MA 01749	W	0.24 / 1,280.80	115
	<i>License No: OSFM-00783</i> <i>License Status: Tank Removed</i>			
HUDSON LIGHT & POWER DEPT - CHERRY ST	77 CHERRY ST HUDSON MA 01749	W	0.24 / 1,280.80	115
	<i>License No: OSFM-00741</i> <i>License Status: Tank Removed</i>			
HUDSON LIGHT & POWER DEPT - STOW CT	49 Forest St Hudson MA 01749	W	0.04 / 230.59	118
	<i>License No: OSFM-00740</i> <i>License Status: Active</i>			
HUDSON LIGHT & POWER DEPT - STOW CT	49 Forest St Hudson MA 01749	W	0.04 / 230.59	118
	<i>License No: OSFM-00784</i> <i>License Status: Tank Removed</i>			

AUL - Sites with Activity and Use Limitations

A search of the AUL database, dated Sep 8, 2020 has found that there are 6 AUL site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	17 BRNT DRIVE HUDSON MA	WNW	0.23 / 1,238.51	19

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HUDSON LAGOONS	12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	132
THORNDIKE PROPERTIES OF MA	12 WHEELER RD HUDSON MA	W	0.32 / 1,695.30	132
TUCKS SERVICE CENTER	244 BROAD ST HUDSON MA	W	0.48 / 2,509.36	135

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BARTLETTS GREENHOUSE	578 BOSTON POST RD SUDBURY MA	ESE	0.48 / 2,539.93	38
GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA	ESE	0.10 / 506.68	100

BROWNFIELDS - Massachusetts Brownfield Tracking

A search of the BROWNFIELDS database, dated Dec 31, 2018 has found that there are 4 BROWNFIELDS site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Blank Industrial Realty	17 Brent Drive Hudson MA	WNW	0.23 / 1,238.51	19
Arrow Automotive Ind Inc	555 Main St Hudson MA	WNW	0.08 / 446.08	31
Hudson Lagoons	12 Wheeler Rd Hudson MA	W	0.32 / 1,695.30	132
H. LaRosee & Sons, Inc.	15 Broad Street Hudson MA	W	0.43 / 2,282.87	144

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Jun 15, 2020 has found that there are 8 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 017490000	WNW	0.01 / 31.29	23
FOREST AVENUE ELEMENTARY SCHOOL	138 FOREST AVENUE HUDSON MA 01749-2840	W	0.00 / 3.52	93
FAMILY ORTHODONTICS OF HUDSON	118 FOREST AVE HUDSON MA 017490000	W	0.00 / 10.64	98
KUSTOM KREATIONS INC	104 FOREST ST HUDSON MA 017490000	W	0.00 / 7.29	106

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
STEVES AUTO BODY	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	66
STATION ROAD AUTO BODY & GARAG	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	66
MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	71
MOSHER AUTOBODY	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	71

ICIS - Integrated Compliance Information System (ICIS)

A search of the ICIS database, dated Nov 18, 2016 has found that there are 1 ICIS site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
RICHS AUTO PARTS INC	566 MAIN ST HUDSON MA 01749	WNW	0.01 / 31.29	23

PCB - Polychlorinated Biphenyl (PCB) Notifiers

A search of the PCB database, dated Oct 9, 2019 has found that there are 1 PCB site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HUDSON LIGHT AND POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	118

State

SPILLS - Oil Spill Program

A search of the SPILLS database, dated Nov 27, 2017 has found that there are 15 SPILLS site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FORMER ROD & GUN CLUB	33 BULKLEY RD SUDBURY MA 01776-0000	E	0.06 / 323.49	10
JAMES GORIN REALTY TRUST	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
COMMERCIAL BUILDING	569 MAIN ST HUDSON MA 01749-0000	WNW	0.07 / 394.11	18
M&M DRILLING KANE PERKINS	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30
ARROW AUTOMOTIVE IND INC	555 MAIN ST HUDSON MA 01749-0000	WNW	0.08 / 446.08	31
HUDSON MAIN 555 LLC	555 MAIN ST HUDSON MA 01749-0000	WNW	0.08 / 446.08	31
HUDSON LIGHT & POWER	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	118

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	PARMENTER RD AND WHITE POND RD HUDSON MA 01749-0000	NW	0.11 / 600.75	1
COATINGS ENGINEERING	33 UNION RD SUDBURY MA 01776-0000	ESE	0.03 / 173.74	51
MULLEN LUMBER	39 UNION AVE SUDBURY MA 01776	ESE	0.04 / 201.52	52

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
15 UNION AVENUE	15 UNION AVE SUDBURY MA 01776-0000	ESE	0.09 / 452.87	61
MIDDLEBORO TRAIN YARD	1 STATION RD MIDDLEBOROUGH MA	ESE	0.01 / 43.46	81
GASOLINE STATION FMR	225 AND 227 BOSTON POST RD SUDBURY MA 01776	ESE	0.09 / 459.18	105
NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA 01776-0000	ESE	0.05 / 283.47	109
NO LOCATION AID	BOSTON POST ROAD AT LANDHAM RD SUDBURY MA 01776-0000	ESE	0.05 / 268.70	111

HIS SPILLS - Historic Spills that occurred prior to October 1st 1993

A search of the HIS SPILLS database, dated Prior to Oct 1, 1993 has found that there are 2 HIS SPILLS site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WASTE OIL AND LUBRICANTS	1 KANE INDUSTRIAL DR. HUDSON MA <i>Spill ID Case Closed: C93-0030 YES</i>	WNW	0.06 / 312.01	22
ENGINE CLEANING	1 KANE INDUSTRIAL PARK HUDSON MA <i>Spill ID Case Closed: C92-0122 YES</i>	WNW	0.06 / 312.01	22

OIL & HAZ MAT - Tier Classified Oil and/or Hazardous Material Sites

A search of the OIL & HAZ MAT database, dated Apr 6, 2020 has found that there are 3 OIL & HAZ MAT site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FMR BOYD COATINGS RESEARCH CO	51 PARMENTER ROAD HUDSON MA	WNW	0.13 / 694.02	5
CHESTNUT STREET WELL	CHESTNUT STREET HUDSON MA	WNW	0.23 / 1,216.26	39

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NO LOCATION AID	209 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 283.47	109

GEN - Hazardous Waste and Waste Oil Generators

A search of the GEN database, dated Sep 25, 2020 has found that there are 21 GEN site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LINCOLN TOOL & MACHINE CORP	43 PARMENTER RD HUDSON MA 01749	WNW	0.09 / 462.02	7
ANVER CORPORATION	36 PARMENTER RD HUDSON MA 01749	WNW	0.09 / 486.70	12
JET MAIL SERVICES	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
CENTERLINE TECHNOLOGIES LLC	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
ADAPTIVE WIRELESS SOLUTIONS	577 MAIN ST HUDSON MA 01749	WNW	0.12 / 652.93	15
MACH MACHINE INC	569 MAIN ST HUDSON MA 01749	WNW	0.07 / 394.11	18
A&S DELIVERY SERVICE INC	6 KANE INDUSTRIAL DR HUDSON MA 01749	WNW	0.10 / 521.83	24
JEKTEK SCREENPRINTING & EMBROIDERY LLC	5 KANE INDUSTRIAL DR HUDSON MA 01749	WNW	0.12 / 649.78	25
R&L AUTOMOTIVE	561 MAIN ST HUDSON MA 01749	WNW	0.05 / 269.50	28
PAO CORP	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30
GRAND IMAGE	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
KANE PERKINS CO INC	560 MAIN ST HUDSON MA 01749	WNW	0.07 / 355.90	30
CONTRONAUTICS INCORPORATED	31 WILKINS HUDSON MA 01749	WNW	0.07 / 372.65	63
MOPBIL LUBE & OIL	457 MAIN ST HUDSON MA 01749	WNW	0.06 / 320.80	90
KUSTOM KREATIONS INC	104 FOREST AVE HUDSON MA 01749	W	0.00 / 7.29	106
HUDSON LIGHT & POWER DEPT	49 FOREST AVE HUDSON MA 01749	W	0.04 / 230.59	118

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
STAPLES CONTRACT AND COMMERCIAL	33 UNION AVE SUDBURY MA 01776	ESE	0.03 / 173.74	51
CHARLES J PERCOURT & SONS INC	46 UNION AVE SUDBURY MA 01776	ESE	0.03 / 168.10	53
STATION ROAD AUTO BODY & GARAGE INC	40 STATION RD SUDBURY MA 01776	ESE	0.01 / 57.56	66
MOSHER AUTO BODY INC	34 STATION RD SUDBURY MA 01776	ESE	0.01 / 55.22	71
SUDBURY AUTOMOTIVE INC	209 BOSTON POST RD SUDBURY MA 01776	ESE	0.05 / 283.47	109

ASBESTOS PROJECT - Asbestos Projects

A search of the ASBESTOS PROJECT database, dated Sep 9, 2020 has found that there are 44 ASBESTOS PROJECT site(s) within approximately 0.12 miles of the project property.

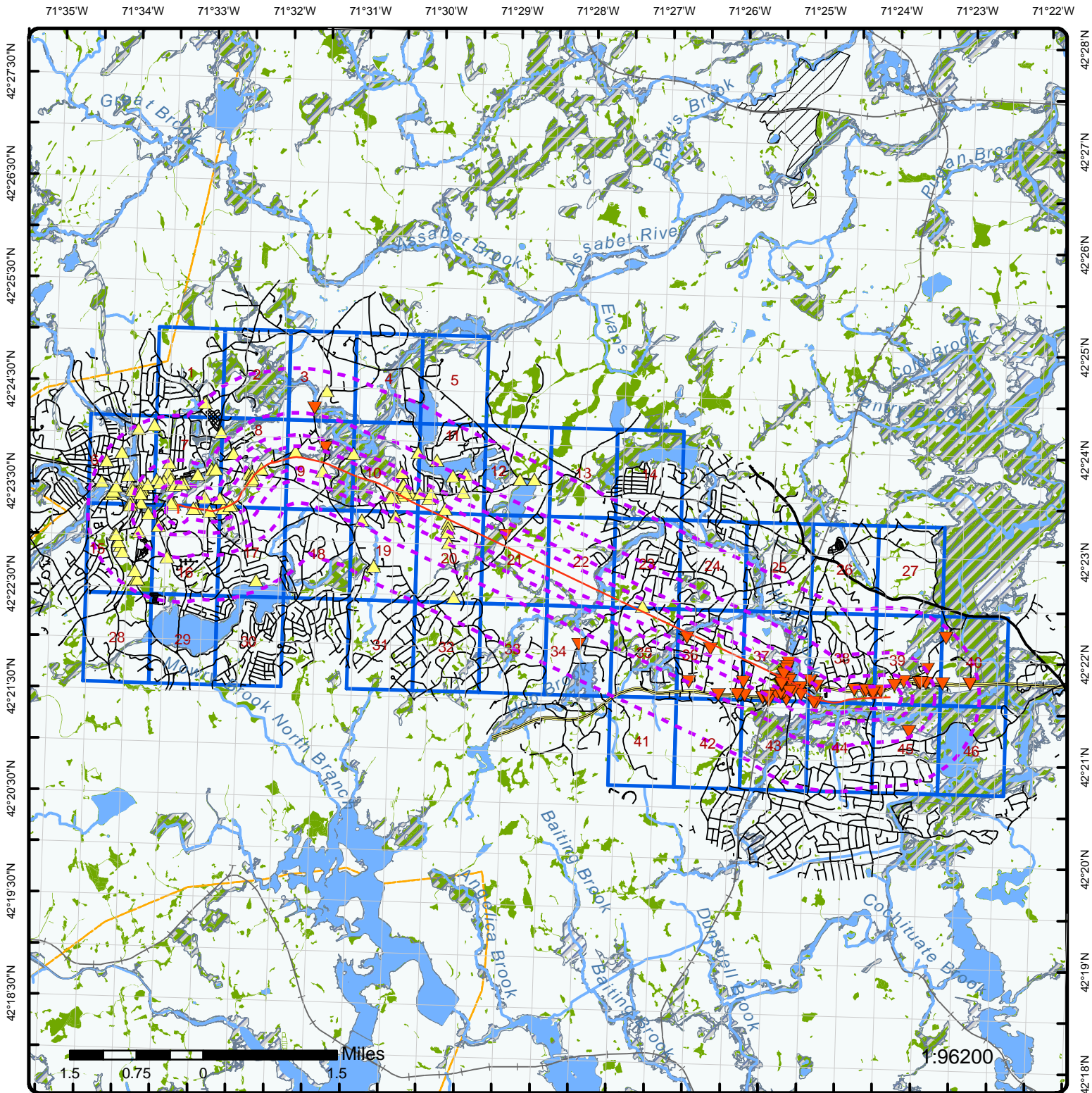
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	18

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	<u>18</u>
COMMERCIAL	569 MAIN STREET HUDSON MA	WNW	0.07 / 394.11	<u>18</u>
E H PERKINS CONSTRUCTION	560 MAIN ST HUDSON MA	WNW	0.07 / 355.90	<u>30</u>
YLK REALTY TRUST	40 CHESTNUT STREET HUDSON MA	WNW	0.10 / 502.87	<u>42</u>
PAUL MCGUIRE	31 WILKINS ST HUDSON MA	WNW	0.07 / 372.65	<u>63</u>
CHICKEN COOPS	6 WILKINS ST HUDSON MA	WNW	0.00 / 11.90	<u>84</u>
WOLFE RESIDENCE	159-61 FORREST ST HUDSON MA	WNW	0.00 / 9.89	<u>86</u>
RESIDENTIAL	156 FOREST AVENUE HUDSON MA	WNW	0.00 / 9.92	<u>87</u>
RESIDENTIAL	156 FOREST AVENUE HUDSON MA	WNW	0.00 / 9.92	<u>87</u>
FOREST AVENUE SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	<u>94</u>
FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	<u>94</u>
HUDSON PUBLIC SCHOOLS	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	<u>94</u>
FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	<u>94</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
FOREST AVE ELEMENTARY SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	94
FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	94
FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	94
FORREST AVE SCHOOL	136 FORREST AVE HUDSON MA	W	0.00 / 3.75	94
FOREST AVE ELEMENTARY SCHOOL	136 FOREST AVE HUDSON MA	W	0.00 / 3.75	94
FOREST AVE. SCHOOL	136 FOREST AVENUE HUDSON MA	W	0.00 / 3.75	94
CHILDRENS AFTER SCHOOL PROGRAMS INC	127 FOREST AVE HUDSON MA	W	0.00 / 14.33	95
CHILDRENS AFTER SCHOOL PROGRAMS INC	127 FOREST AVE HUDSON MA	W	0.00 / 14.33	95
MARY AKINS	39 WOODROW STREET HUDSON MA	W	0.12 / 615.60	96
TRACY FACILE	106 FOREST AVENUE HUDSON MA	W	0.00 / 7.55	103
KENNETH LAVACHE	44 FOREST AVE HUDSON MA	W	0.07 / 390.47	119
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
C/O FLAVIO BRITO	66 JARMAN RD SUDBURY MA	ESE	0.05 / 265.76	29

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SUDBURY WATER DEPARTMENT	1 JARMAN ROAD SUDBURY MA	ESE	0.05 / 289.13	37
SUDBURY POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	62
us post office	18 union avenue SUDBURY MA	ESE	0.08 / 433.37	62
POST OFFICE	18 UNION ST SUDBURY MA	ESE	0.08 / 433.37	62
USPS SUDBURY	18 UNION AVE. SUDBURY MA	ESE	0.08 / 433.37	62
SUDBURY POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	62
US POST OFFICE	18 UNION AVE SUDBURY MA	ESE	0.08 / 433.37	62
OLD SUDBURY POLICE STATION	415 BOSTON POST ROAD SUDBURY MA	ESE	0.10 / 542.21	76
415 BOSTON POST ROAD	415 BOSTON POST ROAD SUDBURY MA	ESE	0.10 / 542.21	76
VACANT BUILDING	400 BOSTON POST ROAD SUDBURY MA	ESE	0.07 / 348.96	80
CHERYL SALATINO	14 MAPLE AVENUE SUDBURY MA	ESE	0.06 / 301.33	82
CITI GROUP	5-10 CONCORD RD SUDBURY MA	ESE	0.12 / 638.79	85
VERIZON	351 BOSTON POST ROAD SUDBURY MA	ESE	0.12 / 659.51	89

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BARRETT RESIDENCE	222 BOSTON POST ROAD SUDBURY MA	ESE	0.08 / 432.13	107
PATRICK DELANEY	206 BOSTON POST ROAD SUDBURY MA	ESE	0.05 / 286.16	110
TED SHYLOUSKY	192 BOSTON POST ROAD SUDBURY MA	ESE	0.07 / 354.42	113
HOUSE	192 BOSTON POST RD SUDBURY MA	ESE	0.07 / 354.42	113
KEITH CONSTRUCTION	189 BOSTON POST ROAD SUDBURY MA	ESE	0.06 / 337.15	114



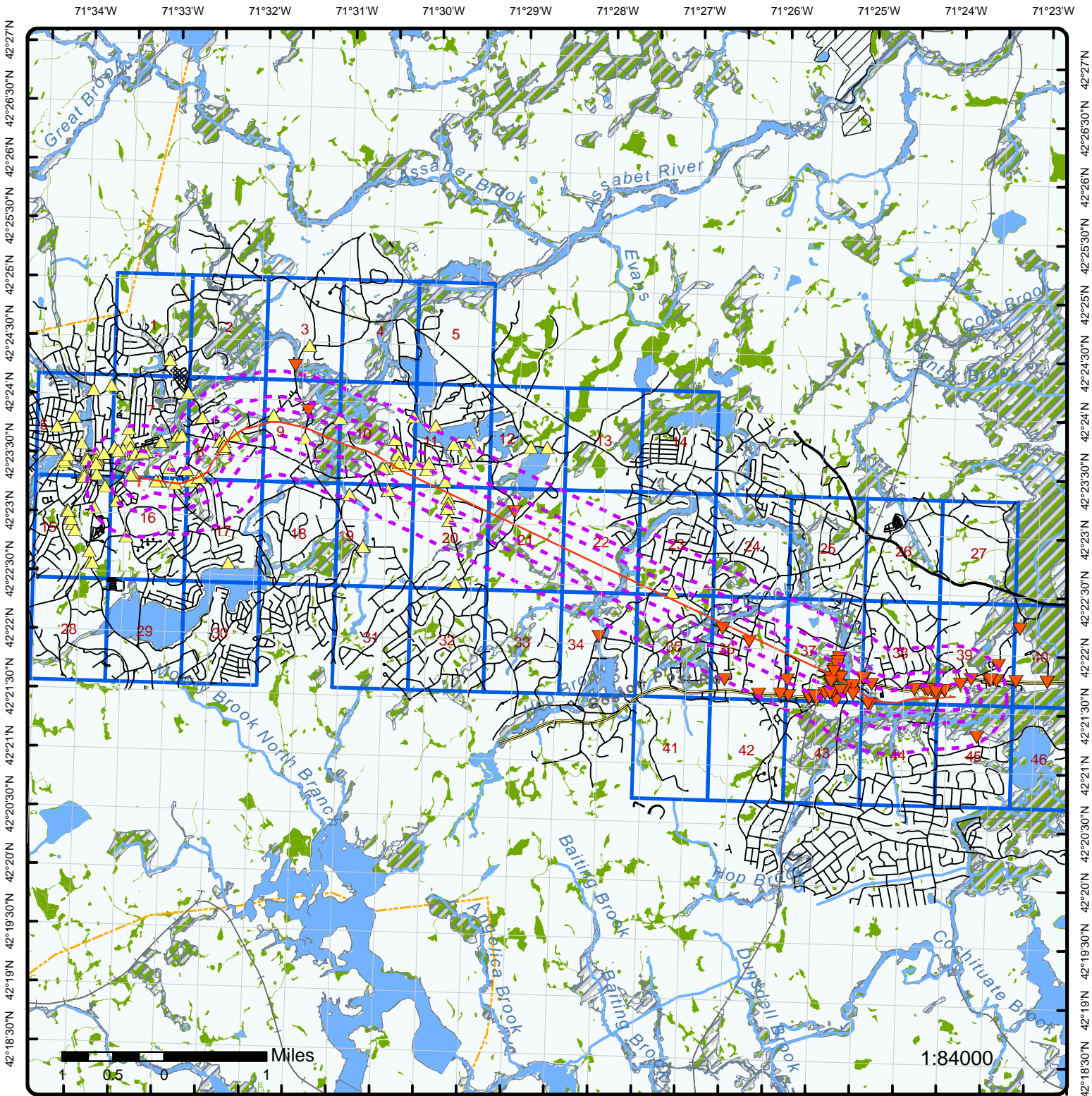
Map : 1.0 Mile Radius

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



Map : 0.5 Mile Radius

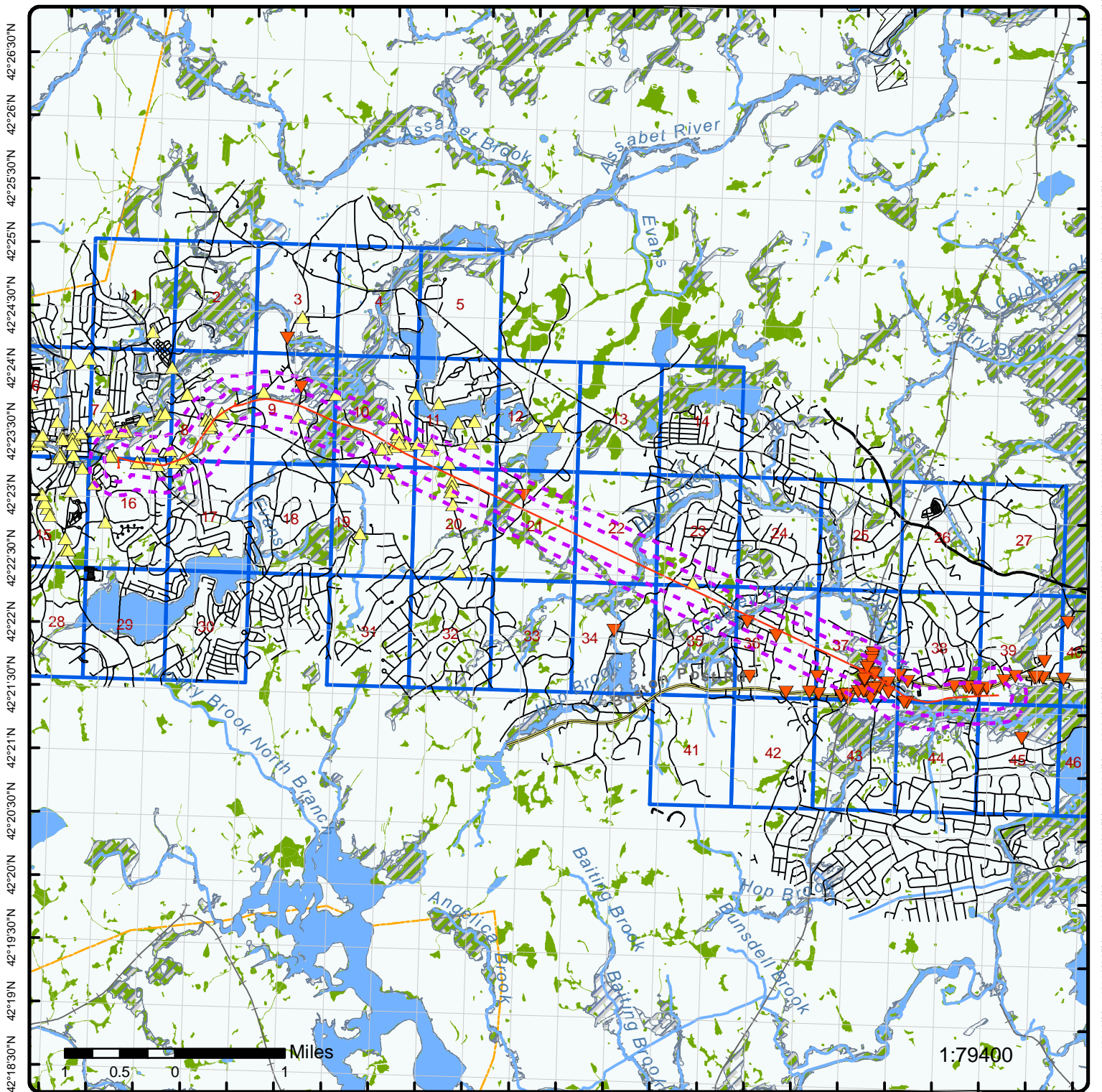
Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

71°33'30"W 71°32'30"W 71°31'30"W 71°30'30"W 71°29'30"W 71°28'30"W 71°27'30"W 71°26'30"W 71°25'30"W 71°24'30"W 71°23'30"W

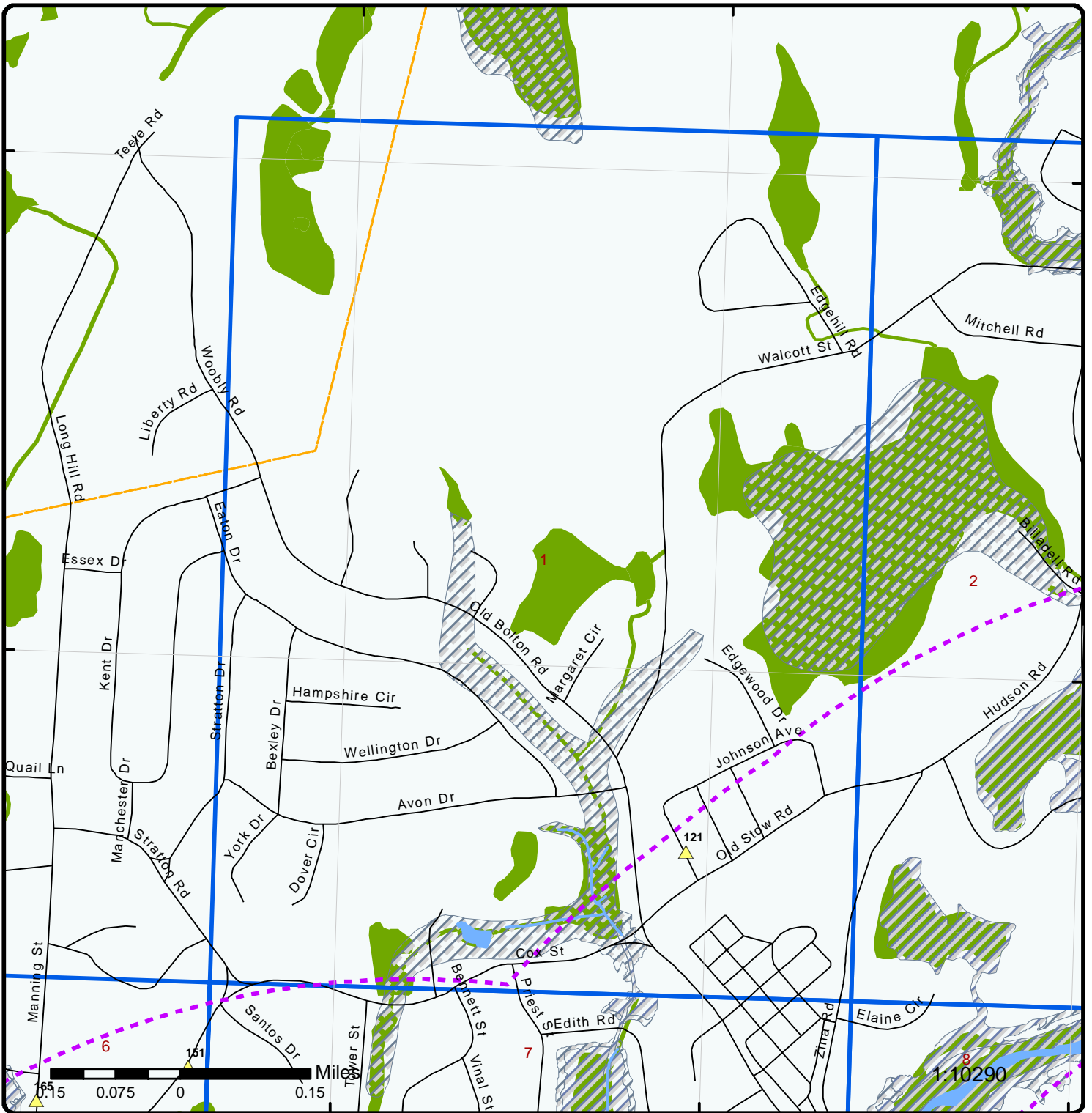


Map : 0.25 Mile Radius

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



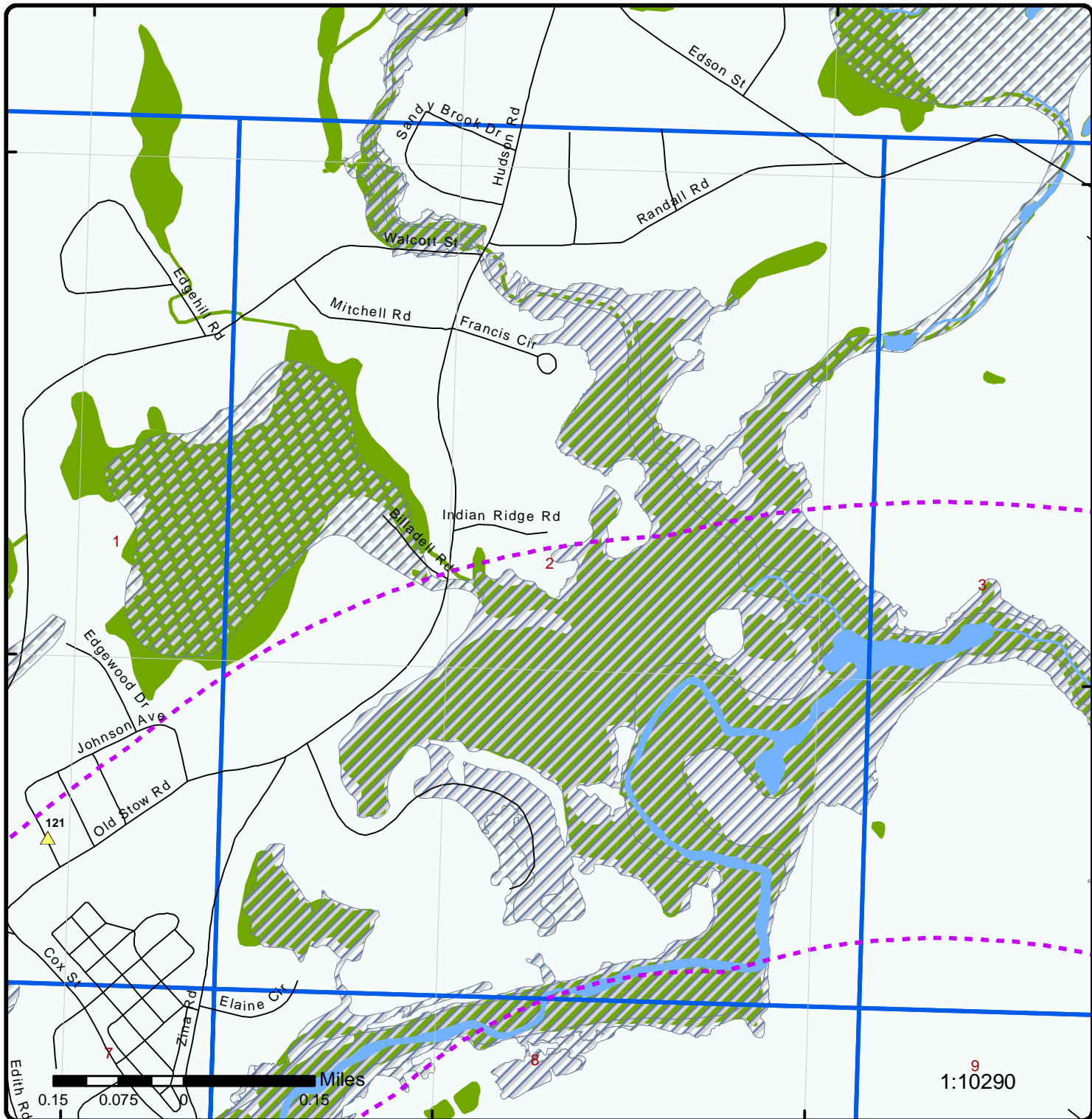
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



1:10290

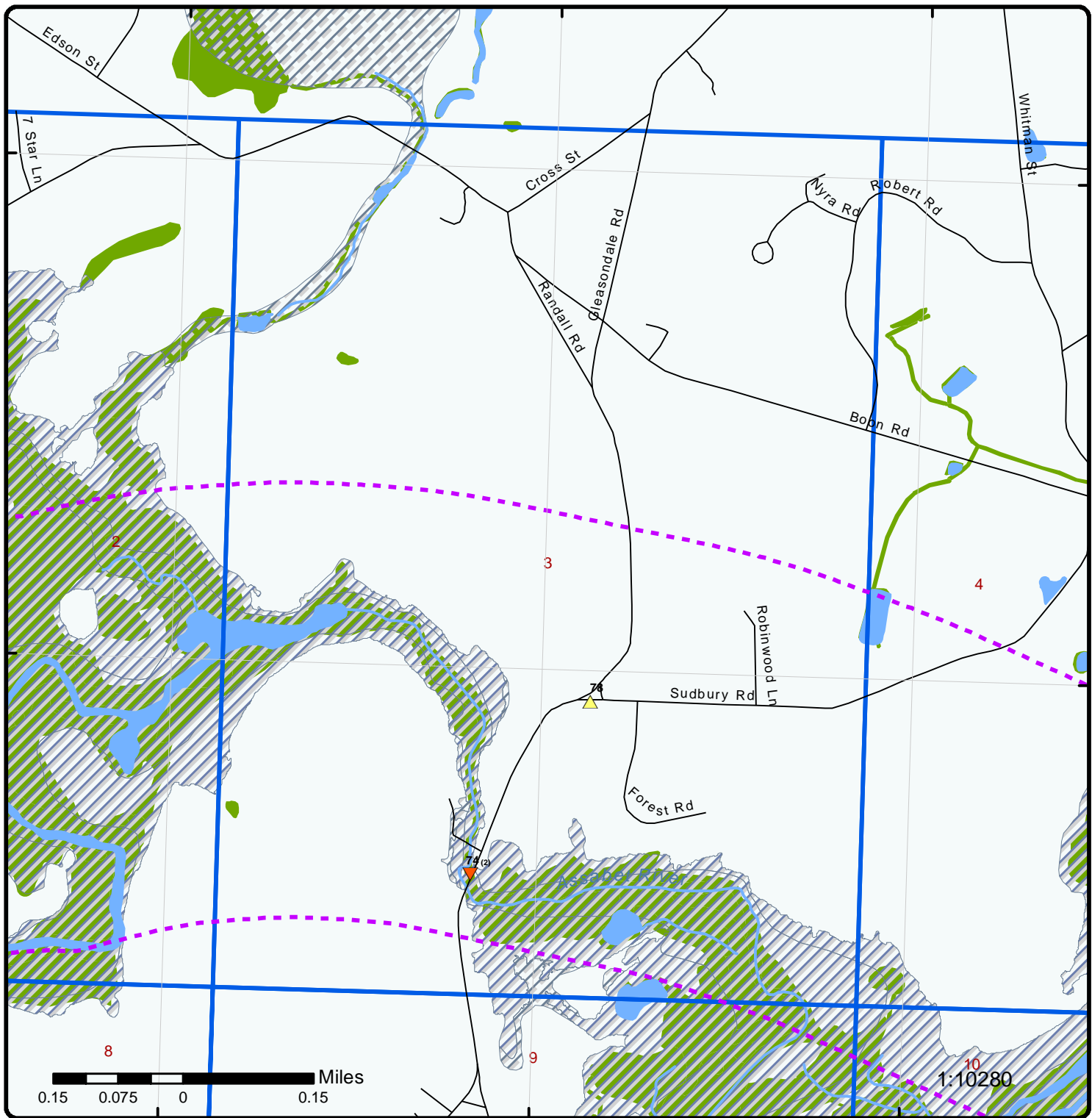
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

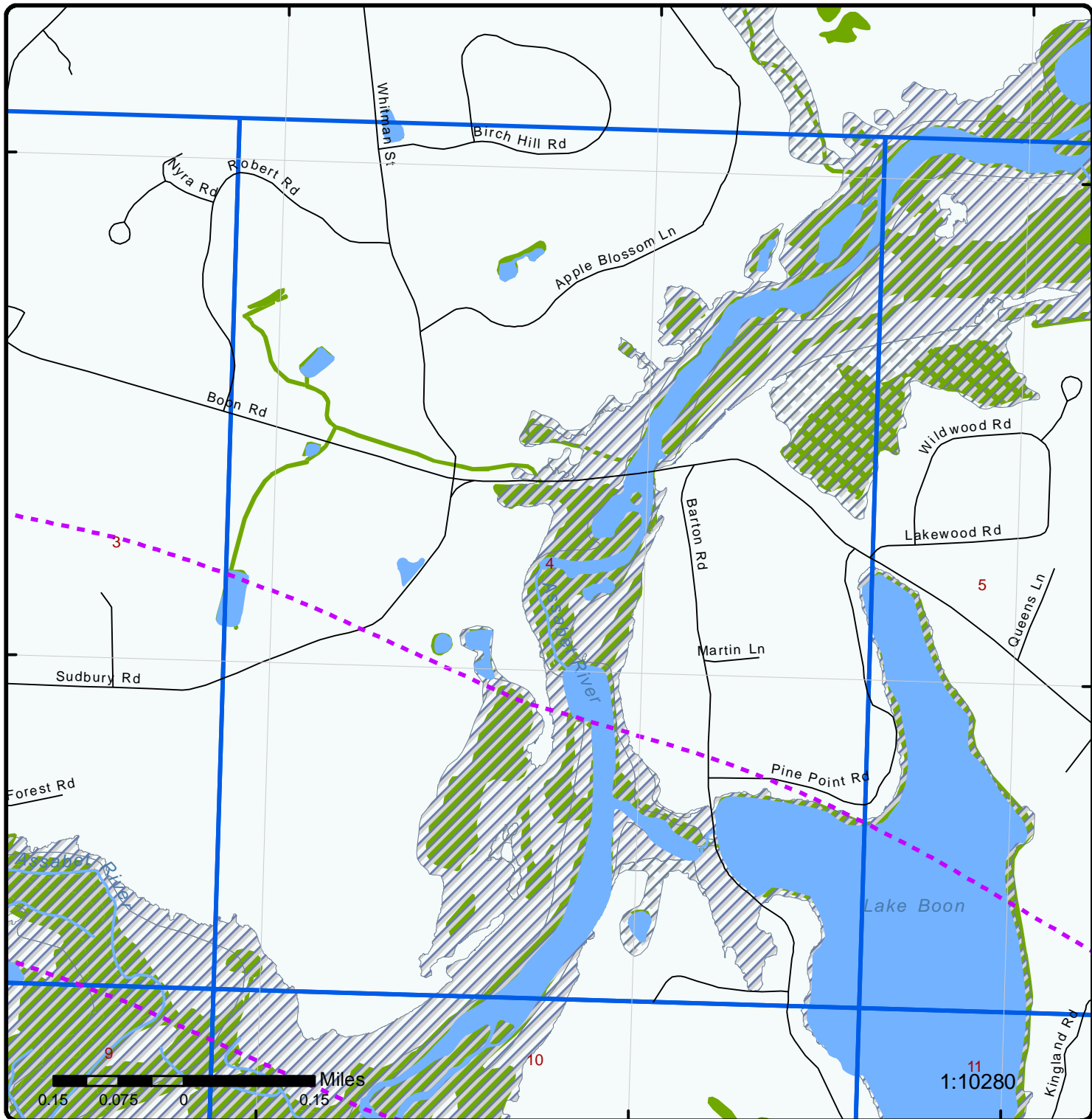


Grid :3

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



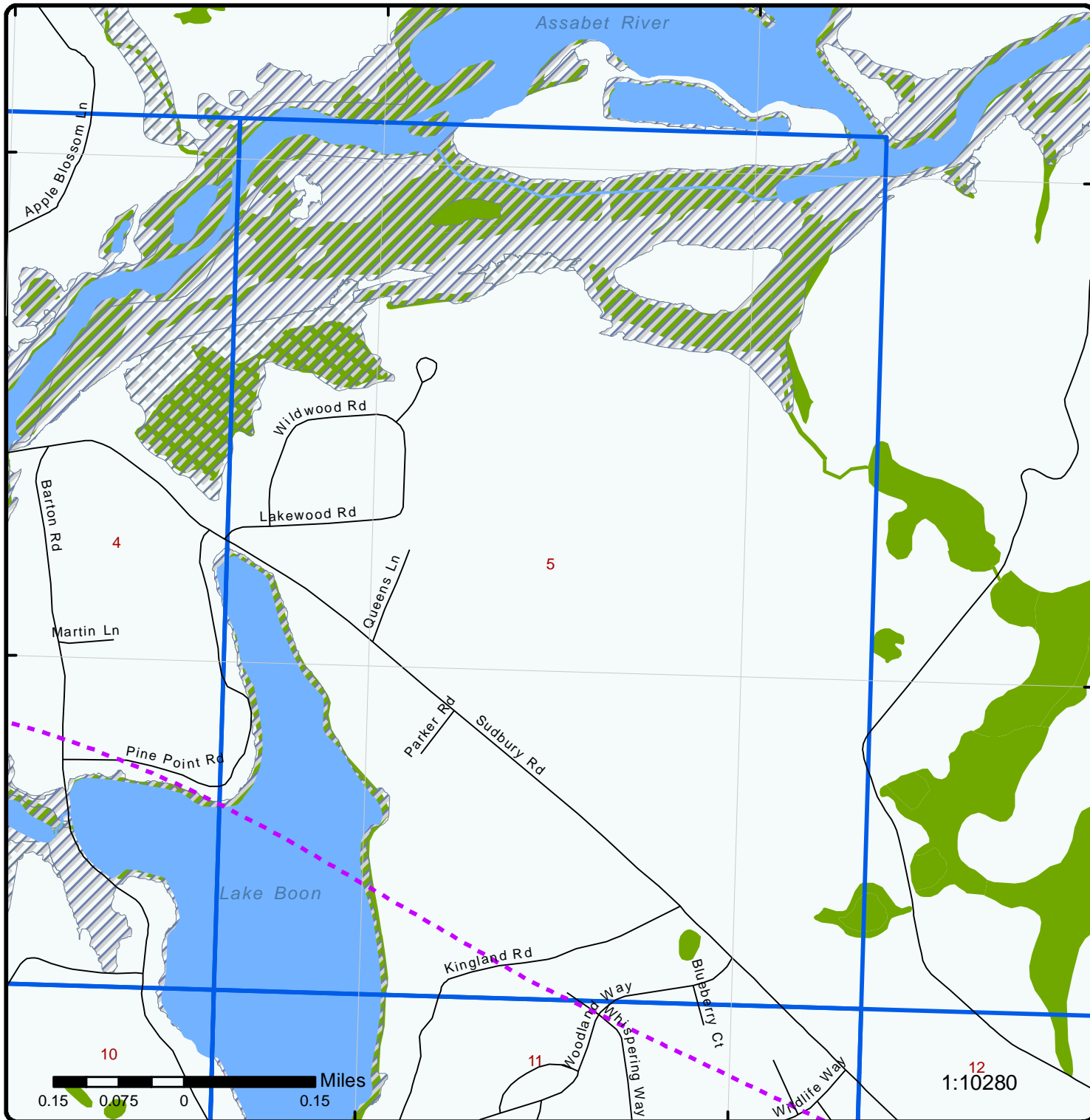
Grid : 4

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



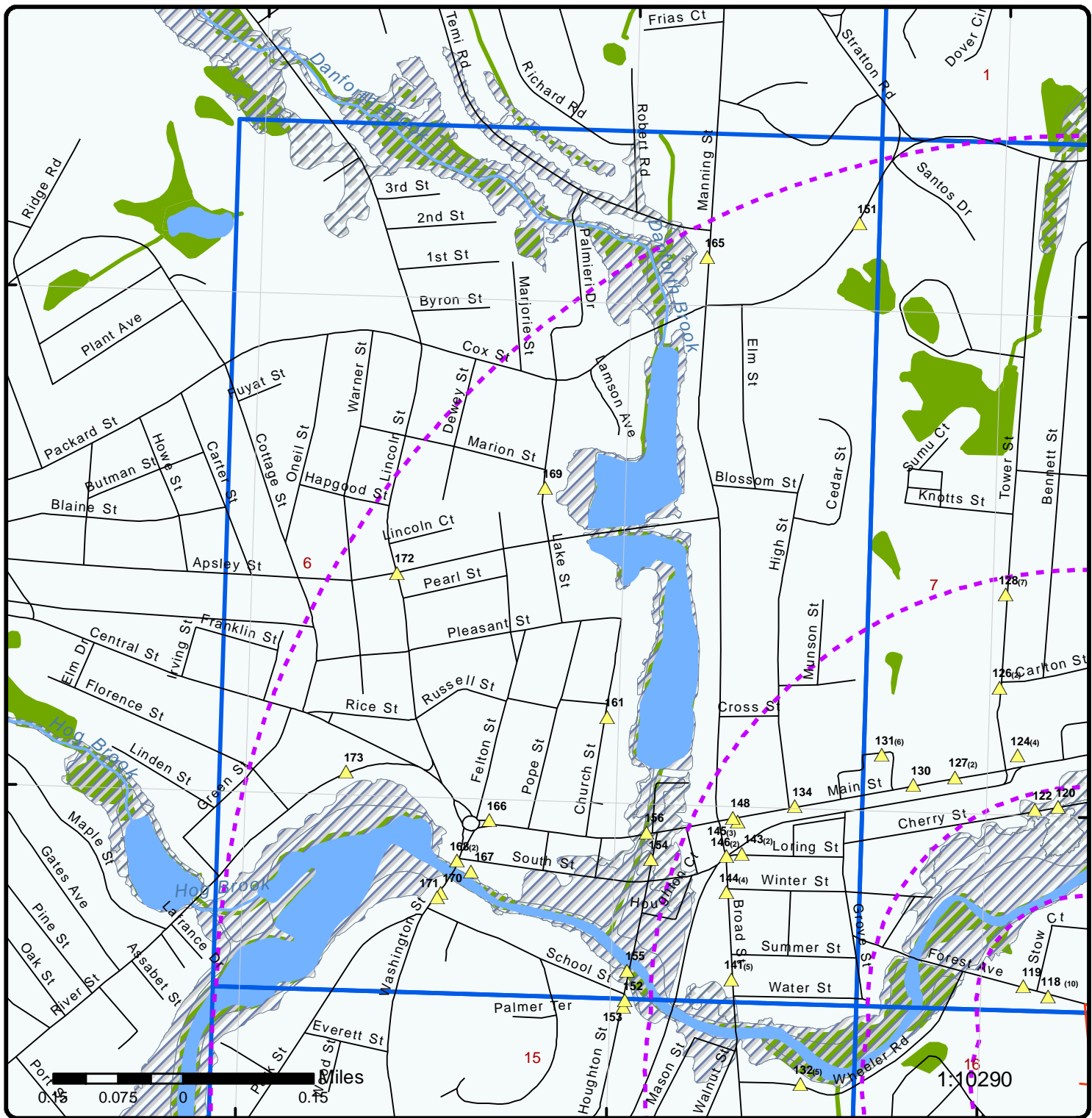
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

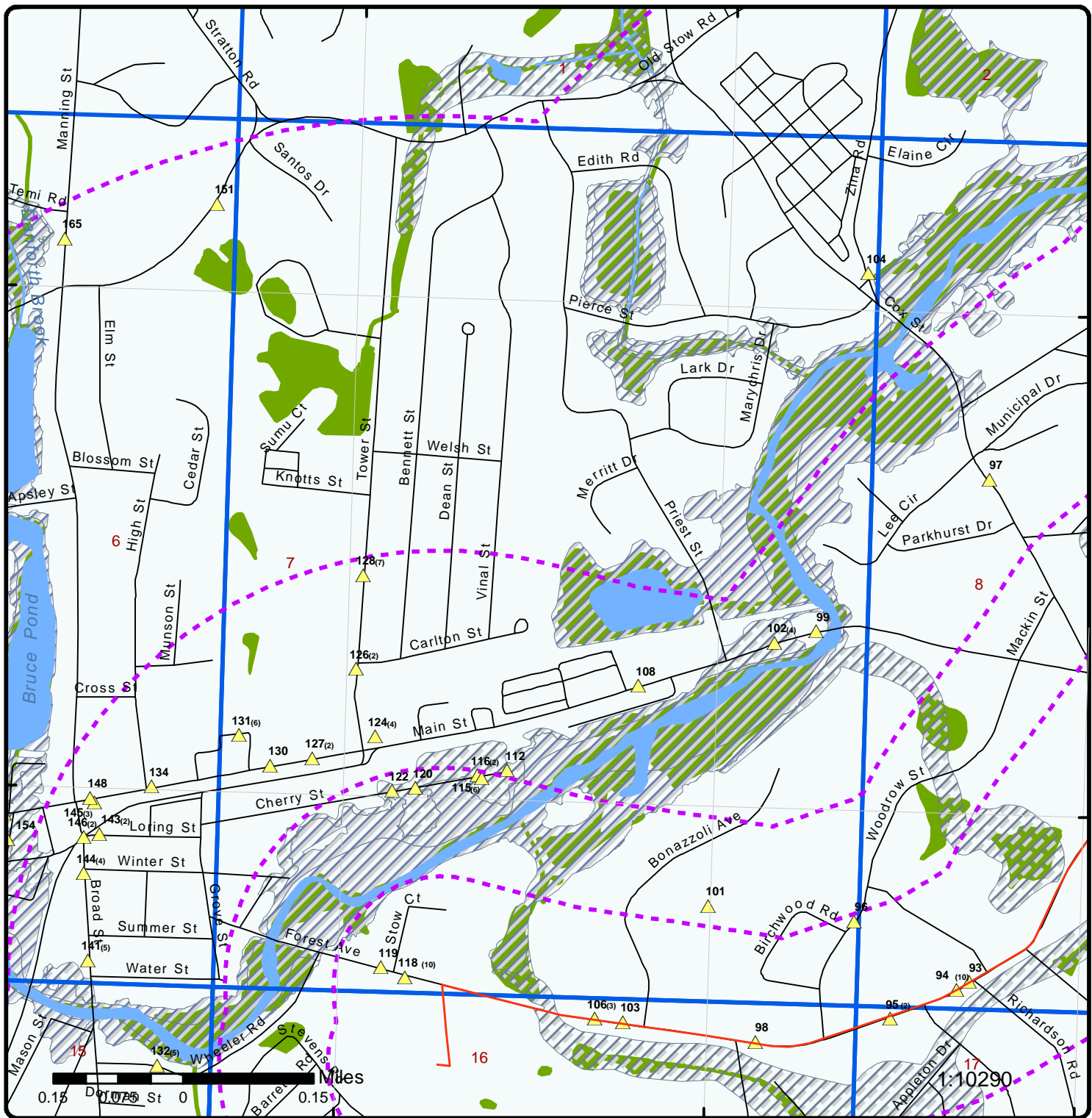


Grid : 6

Order Number: 20302700358
Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

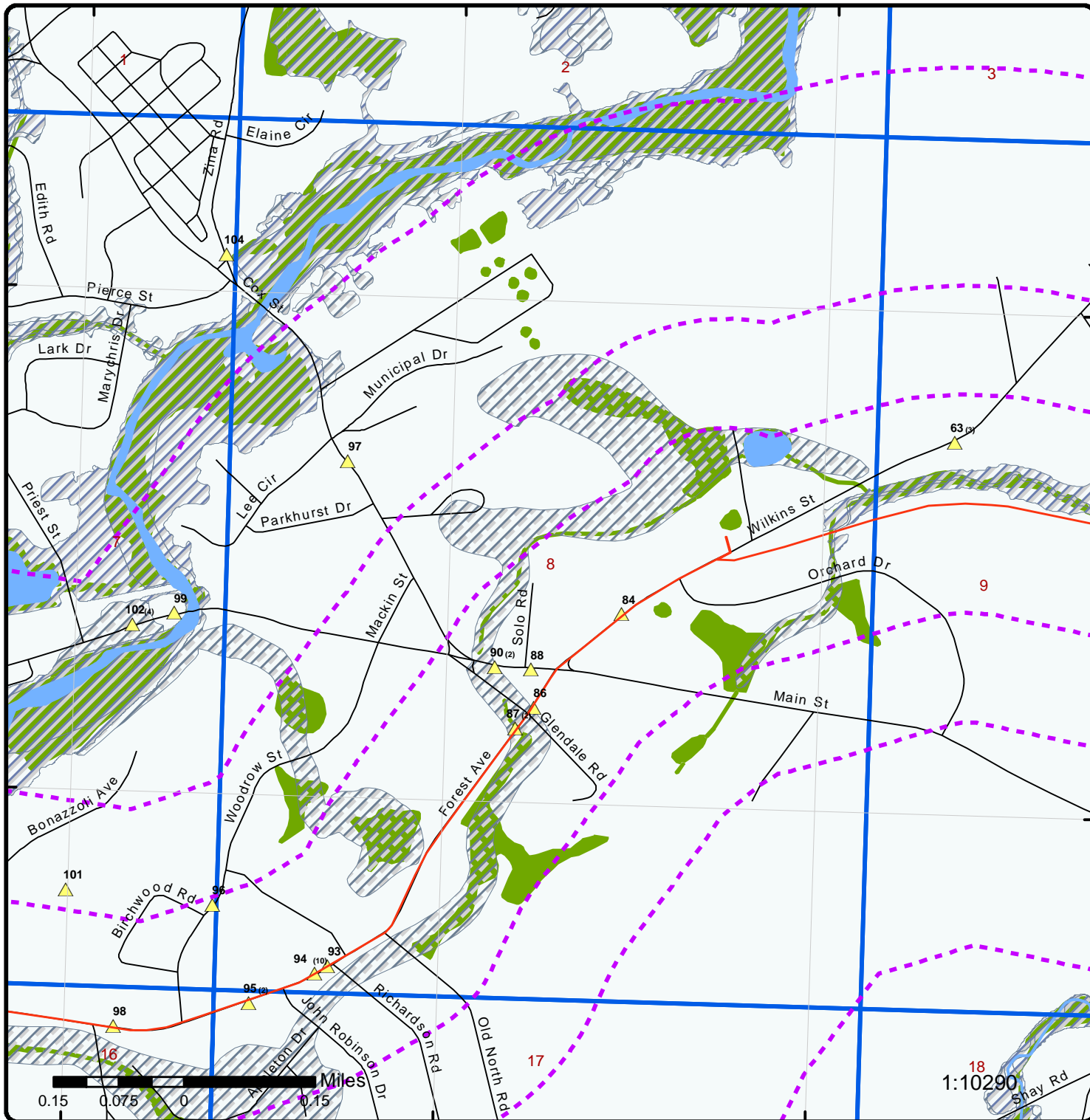


Grid : 7

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



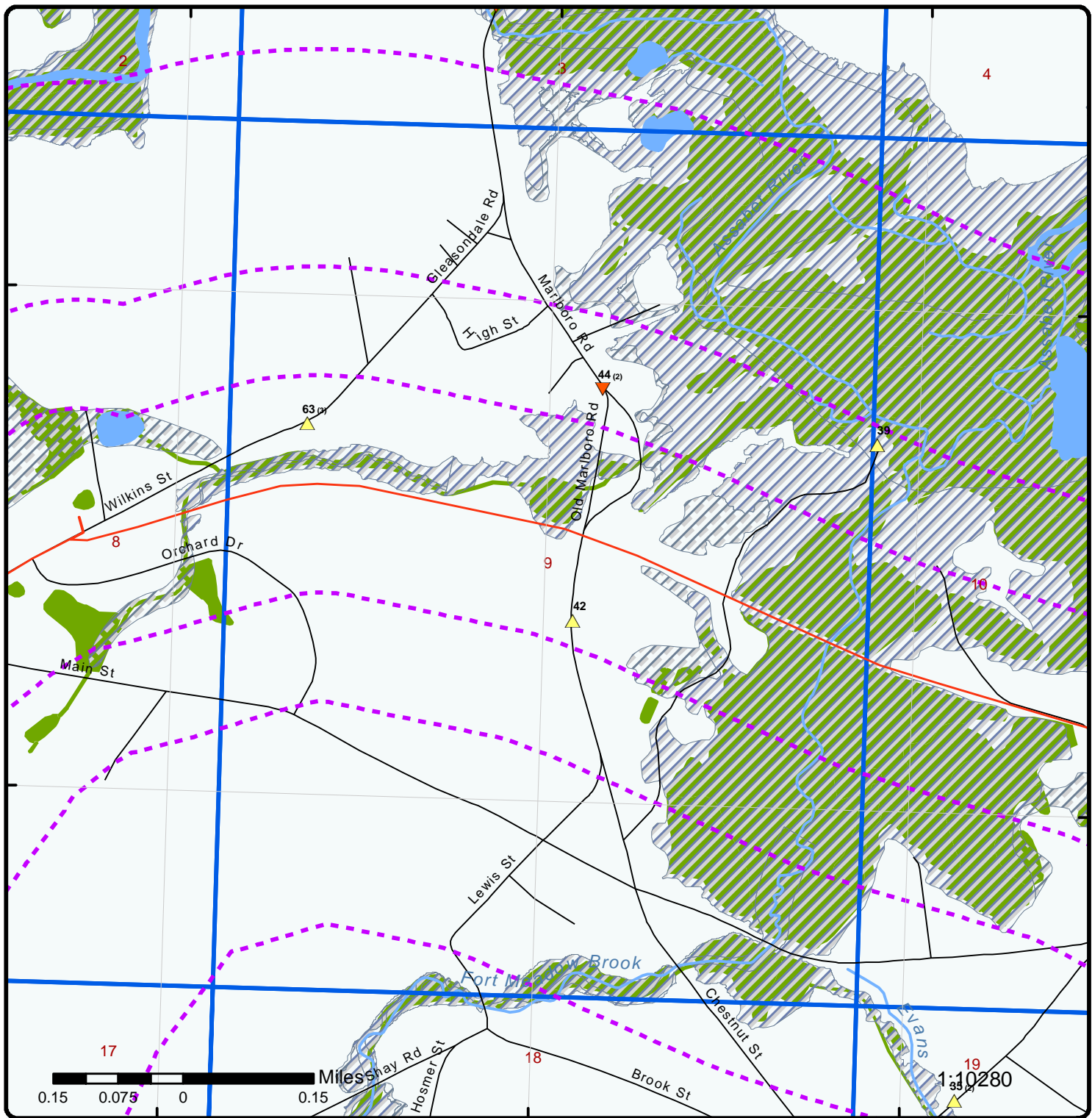
Grid : 8

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

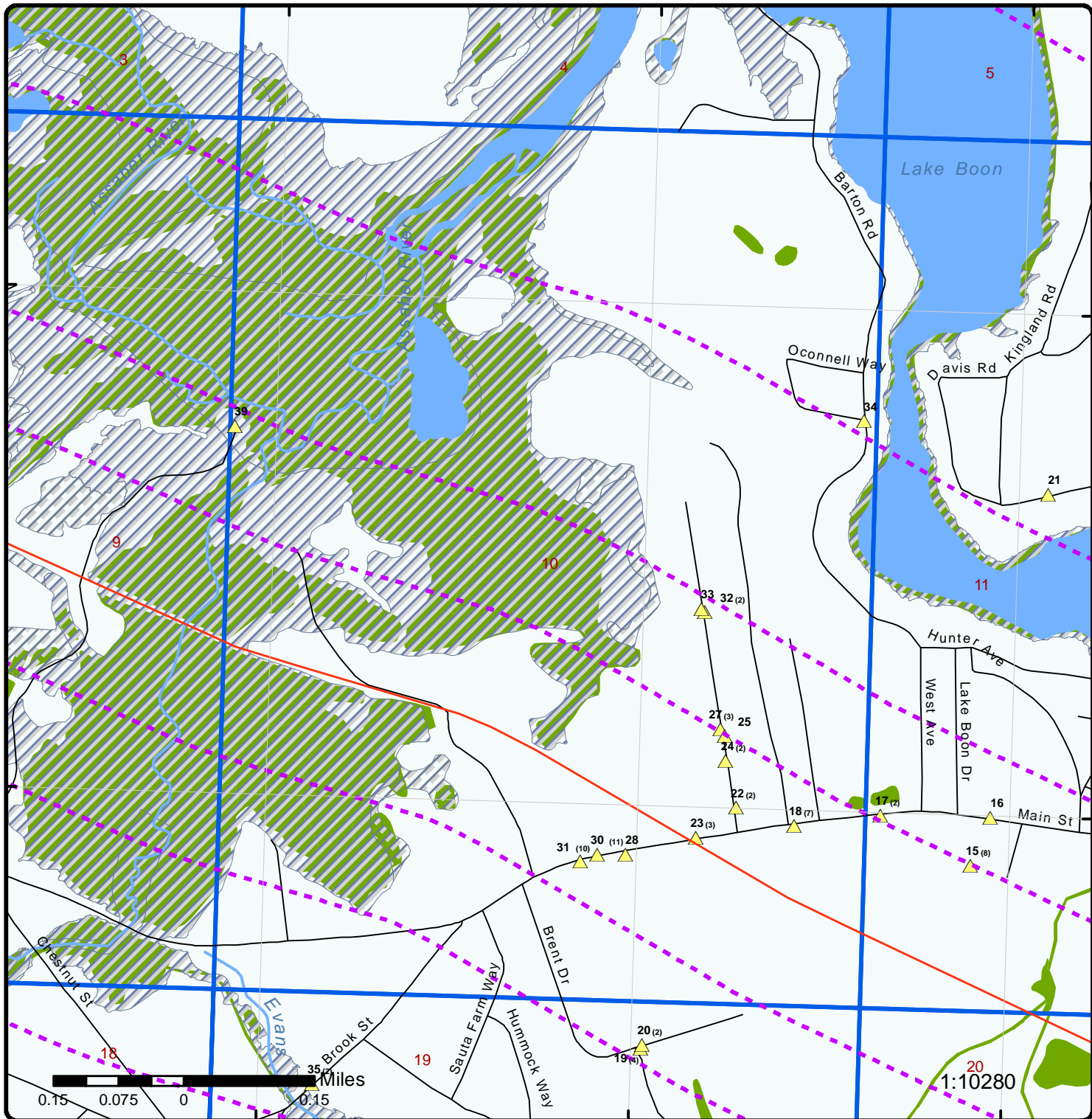


Grid : 9

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



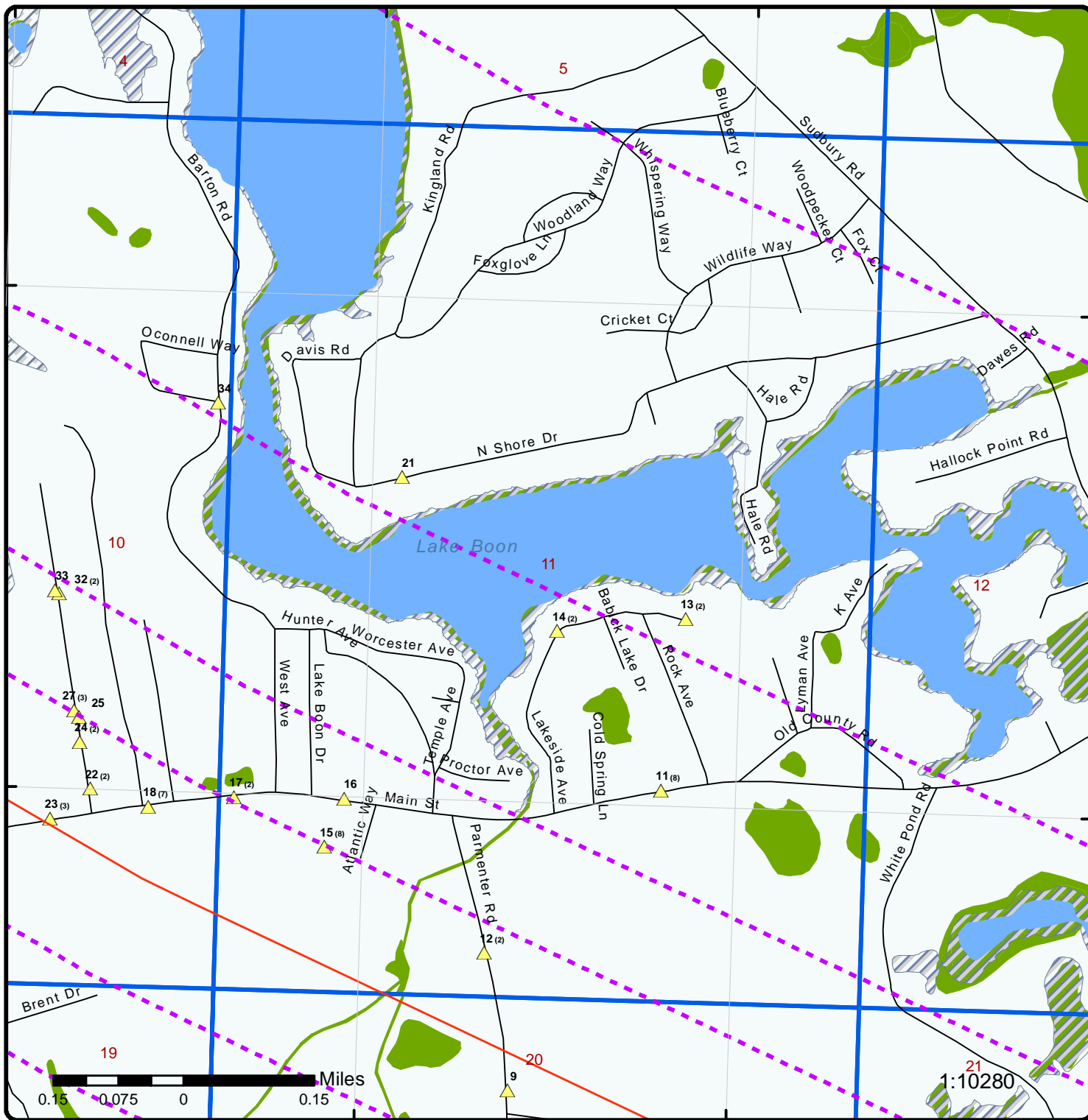
Grid : 10

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



Grid : 11

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



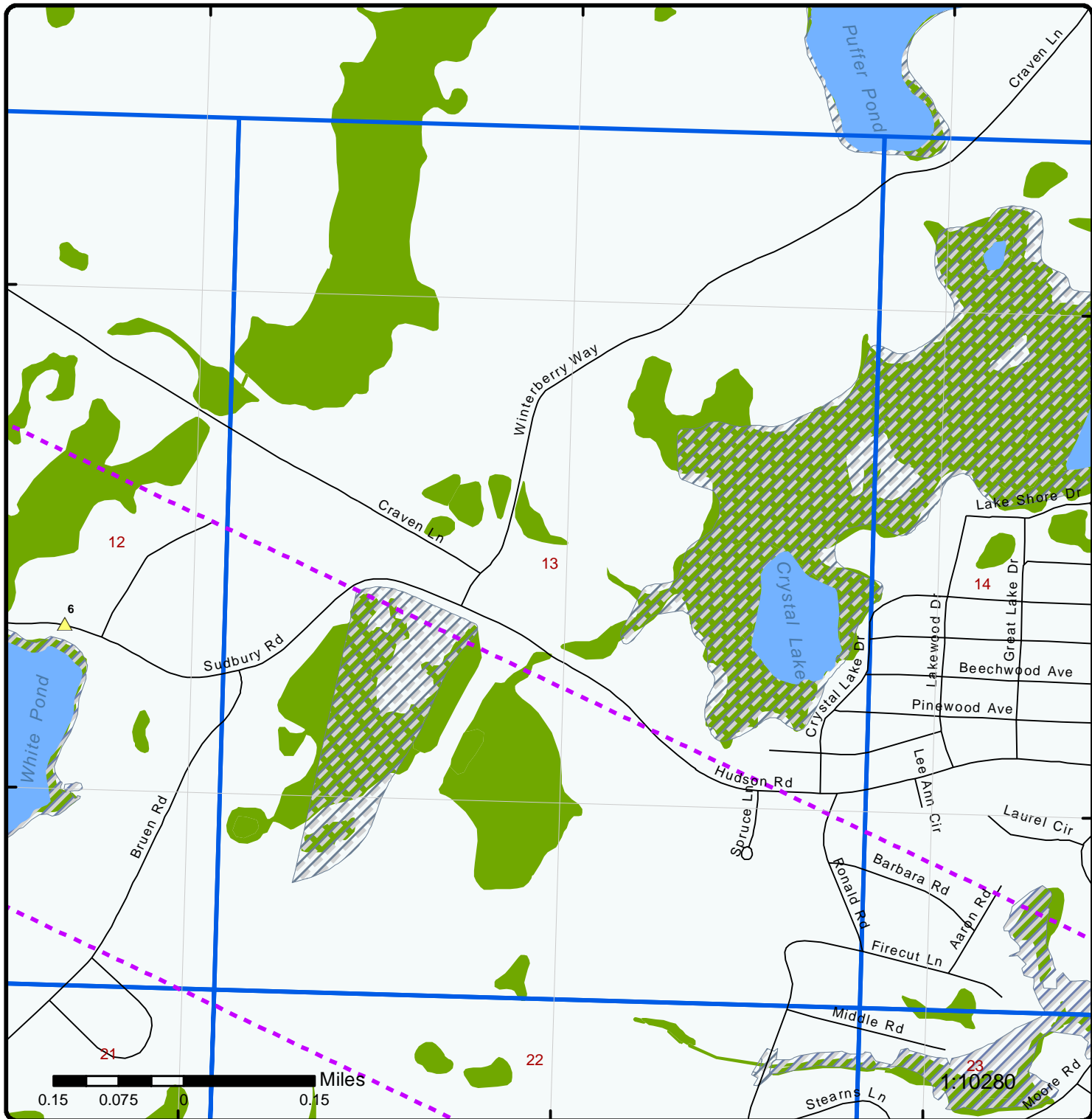
Grid : 12

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



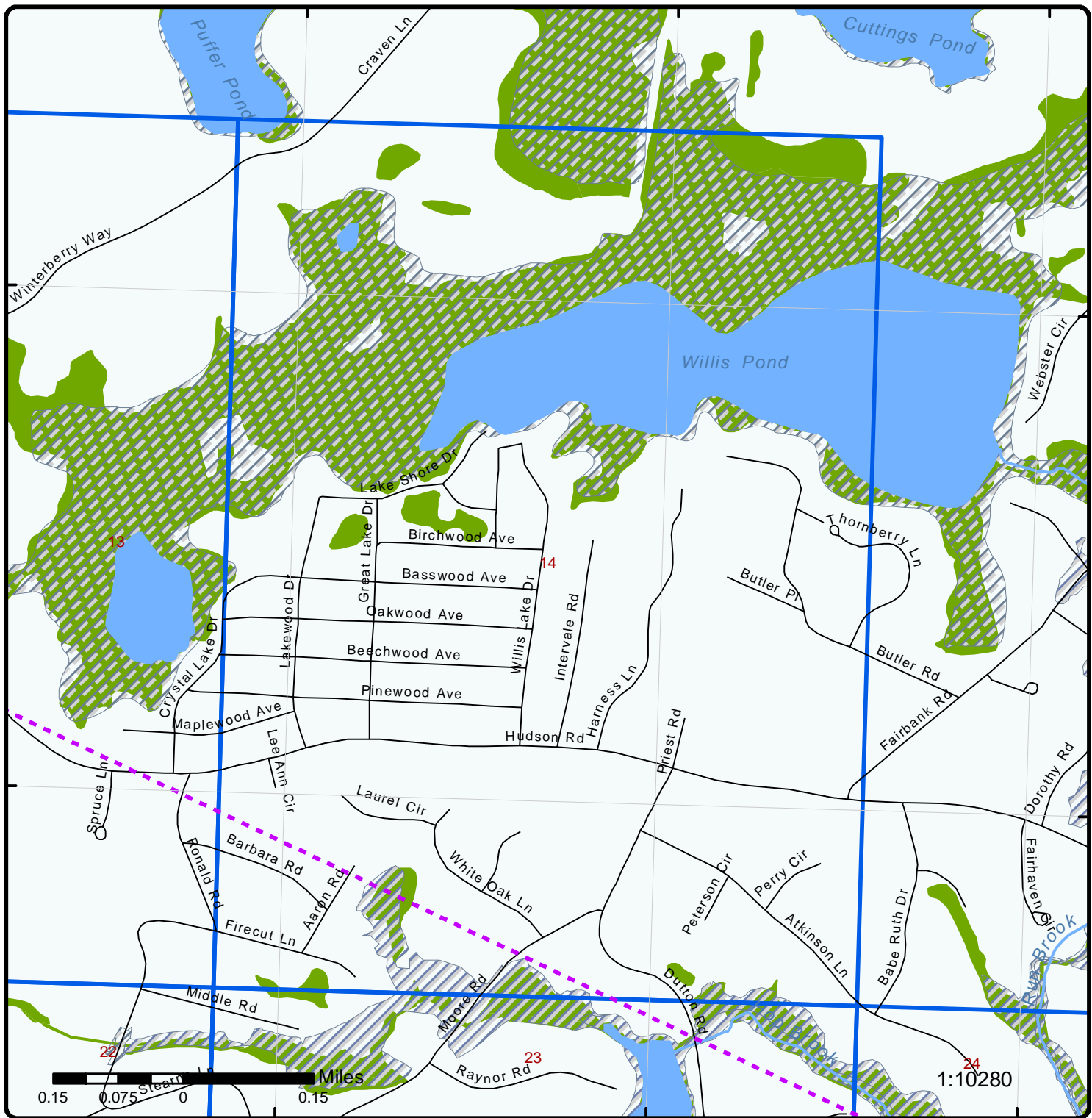
Grid : 13

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

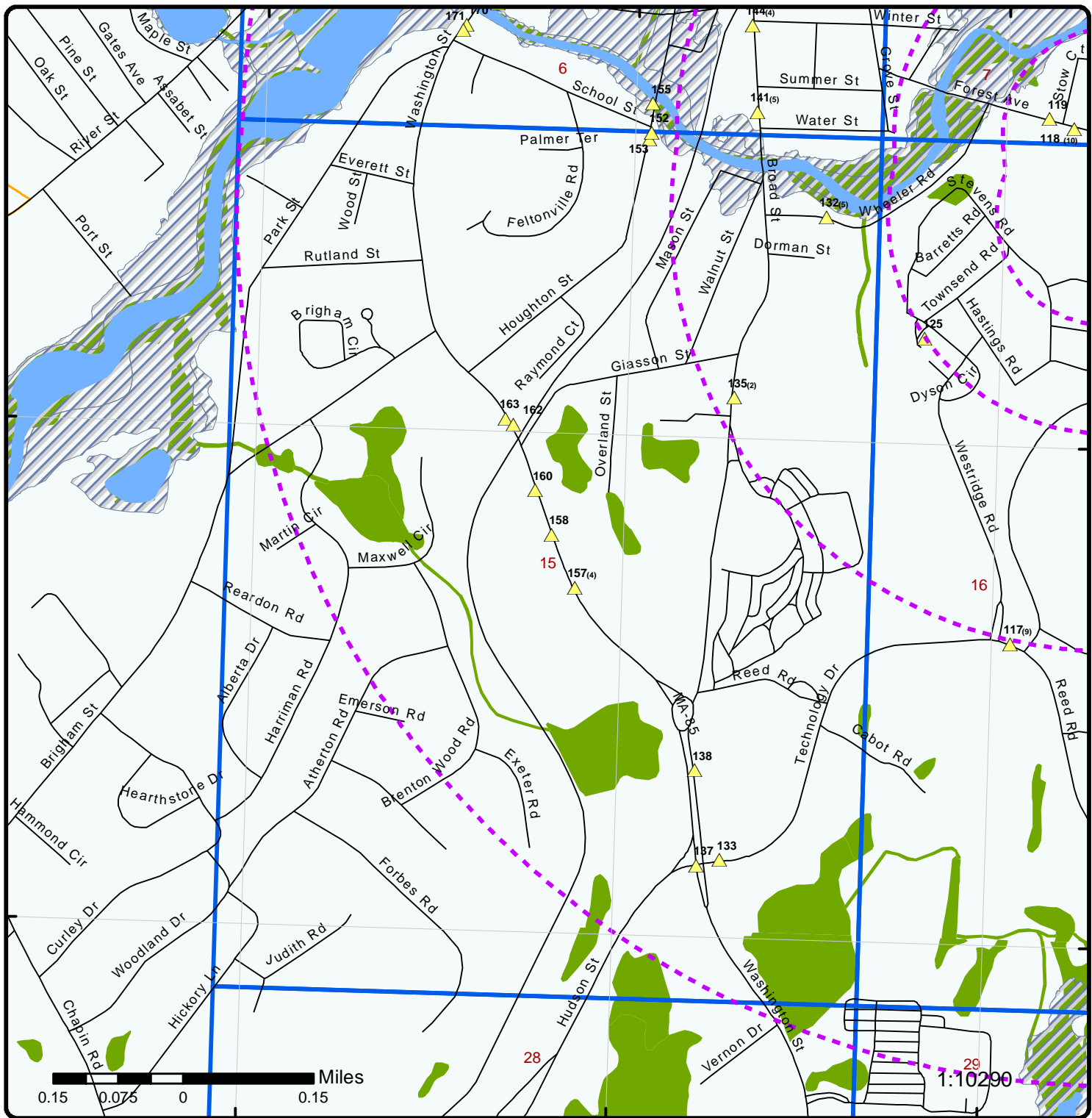


Grid : 14

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

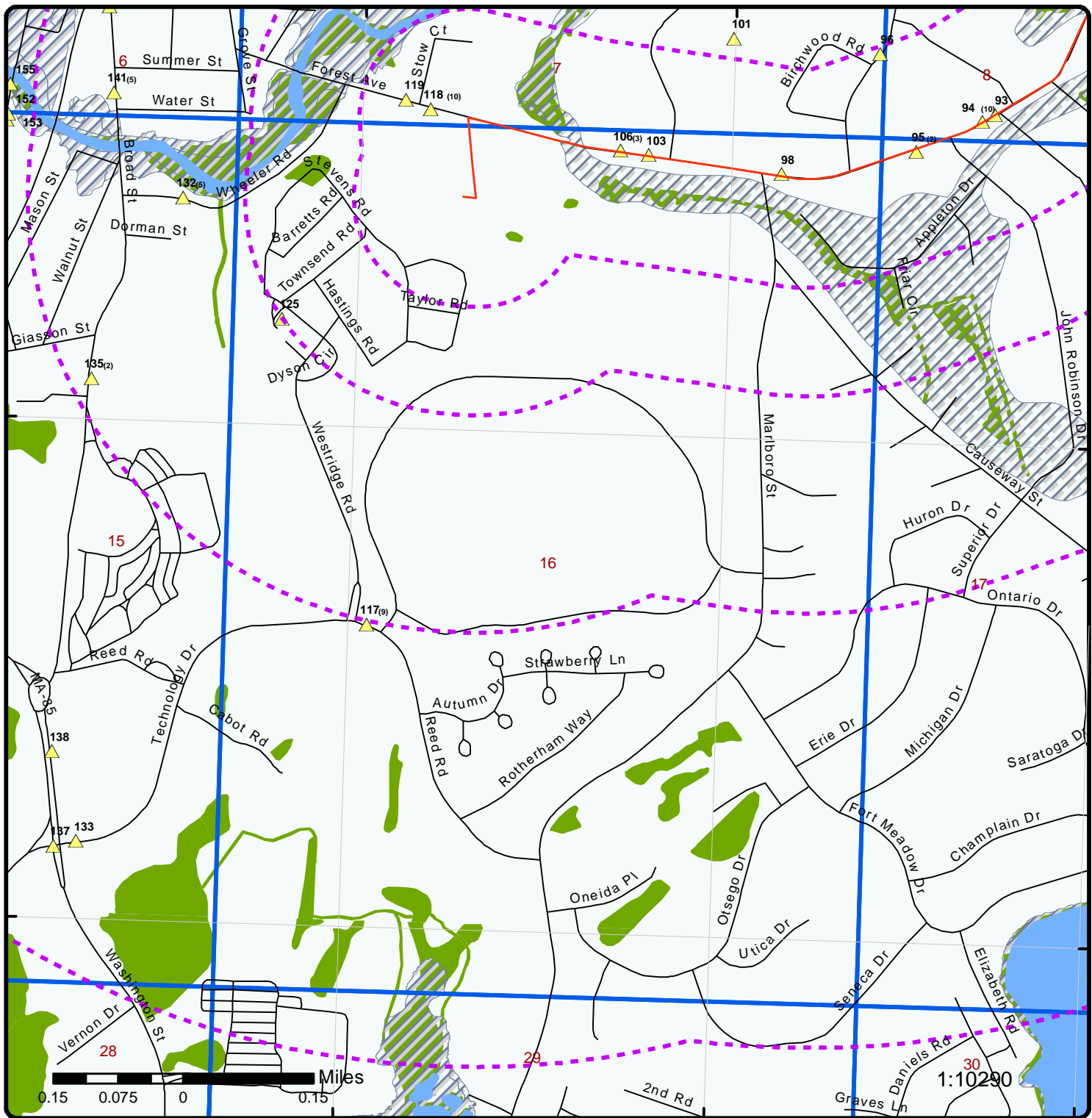


Grid : 15

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

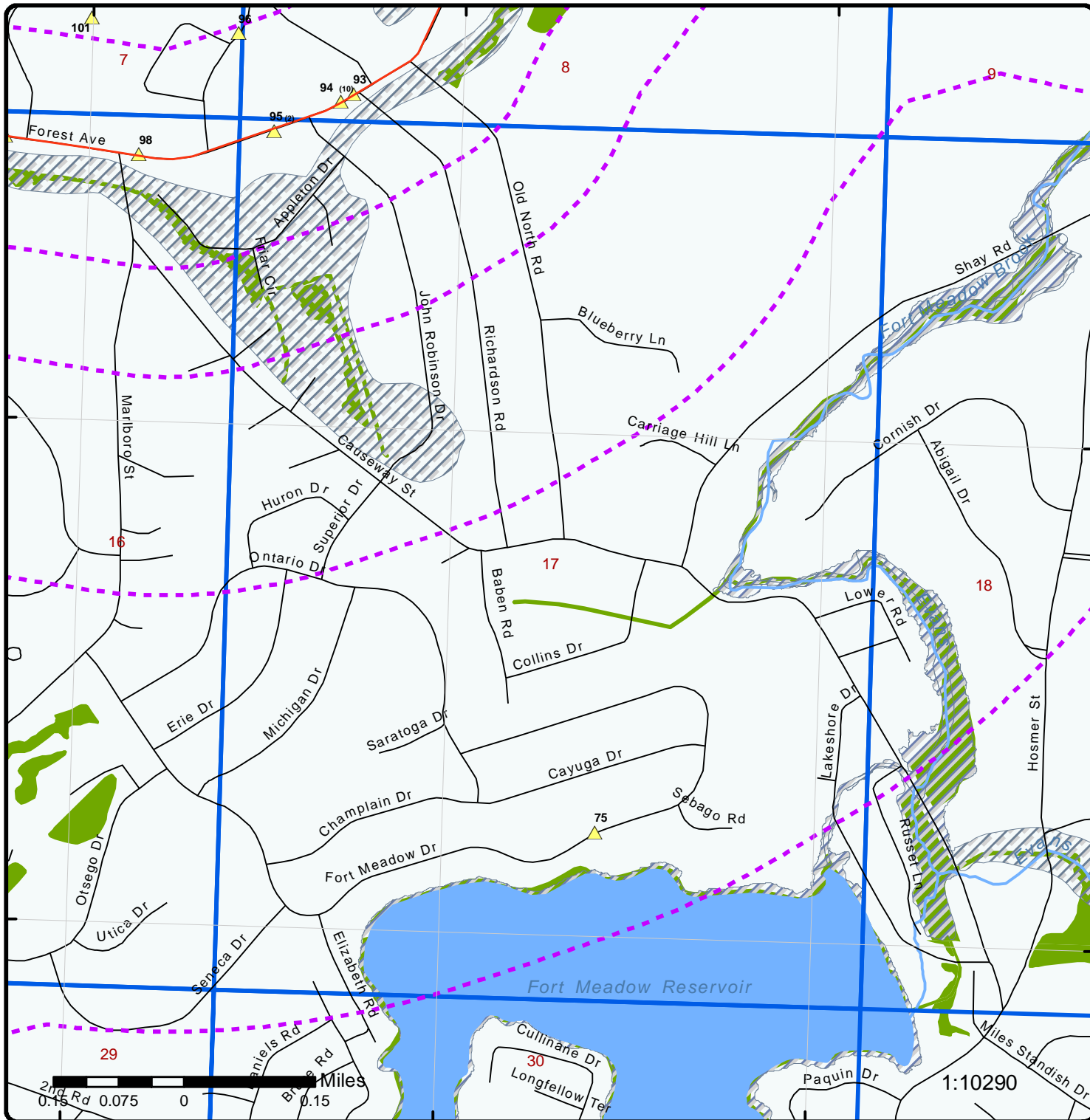


Grid : 16

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



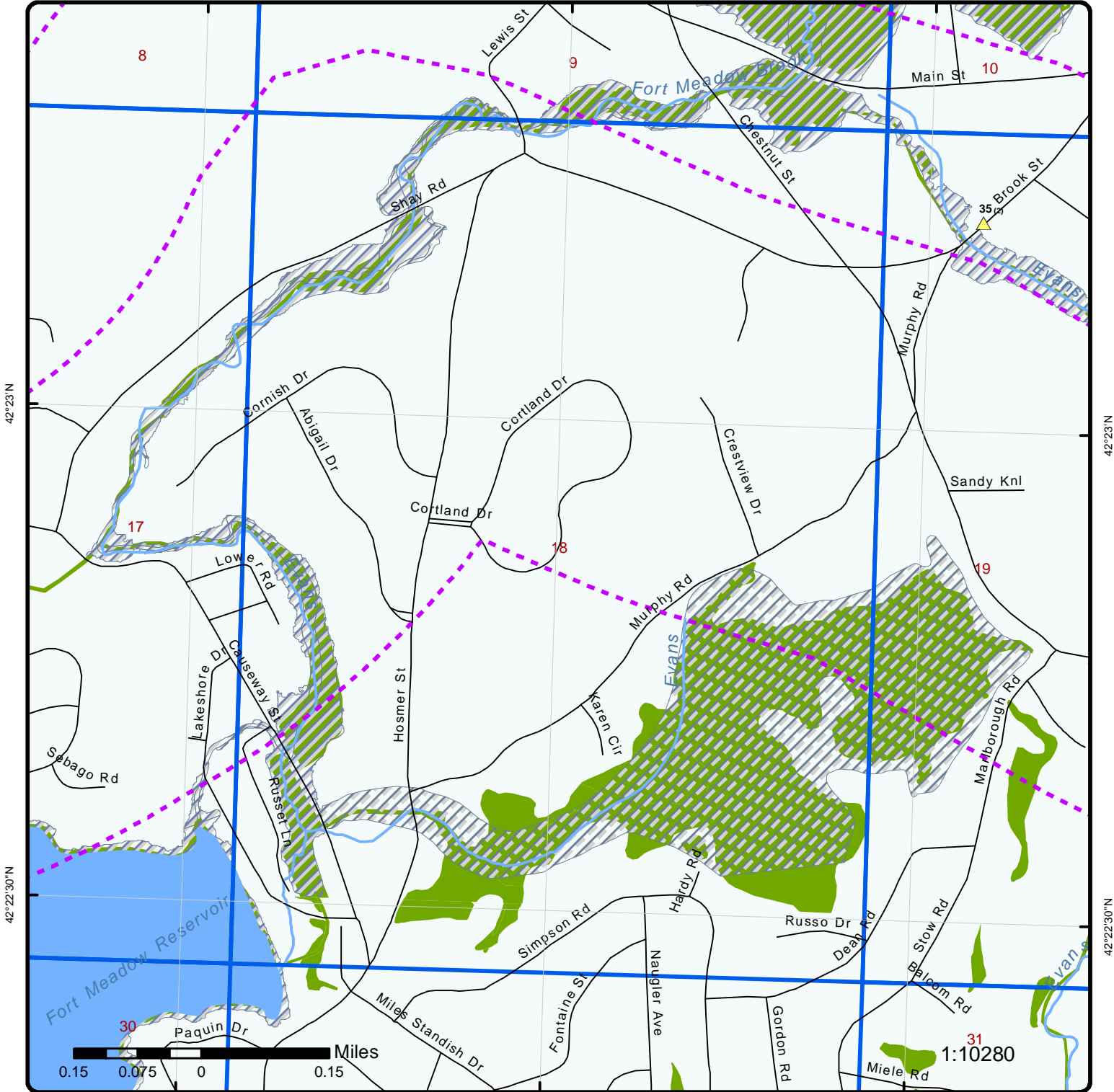
Grid : 17

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



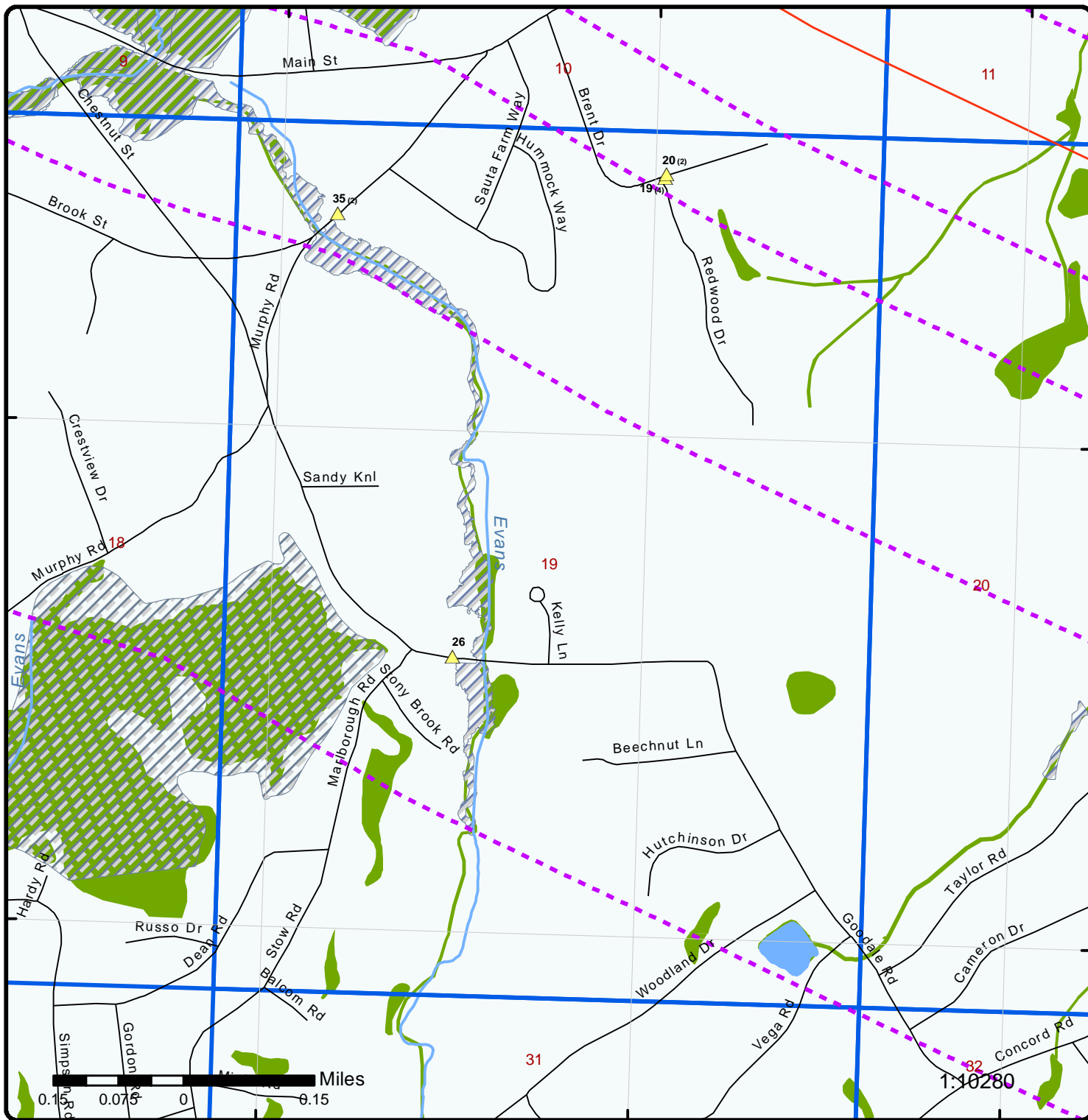
Grid : 18

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

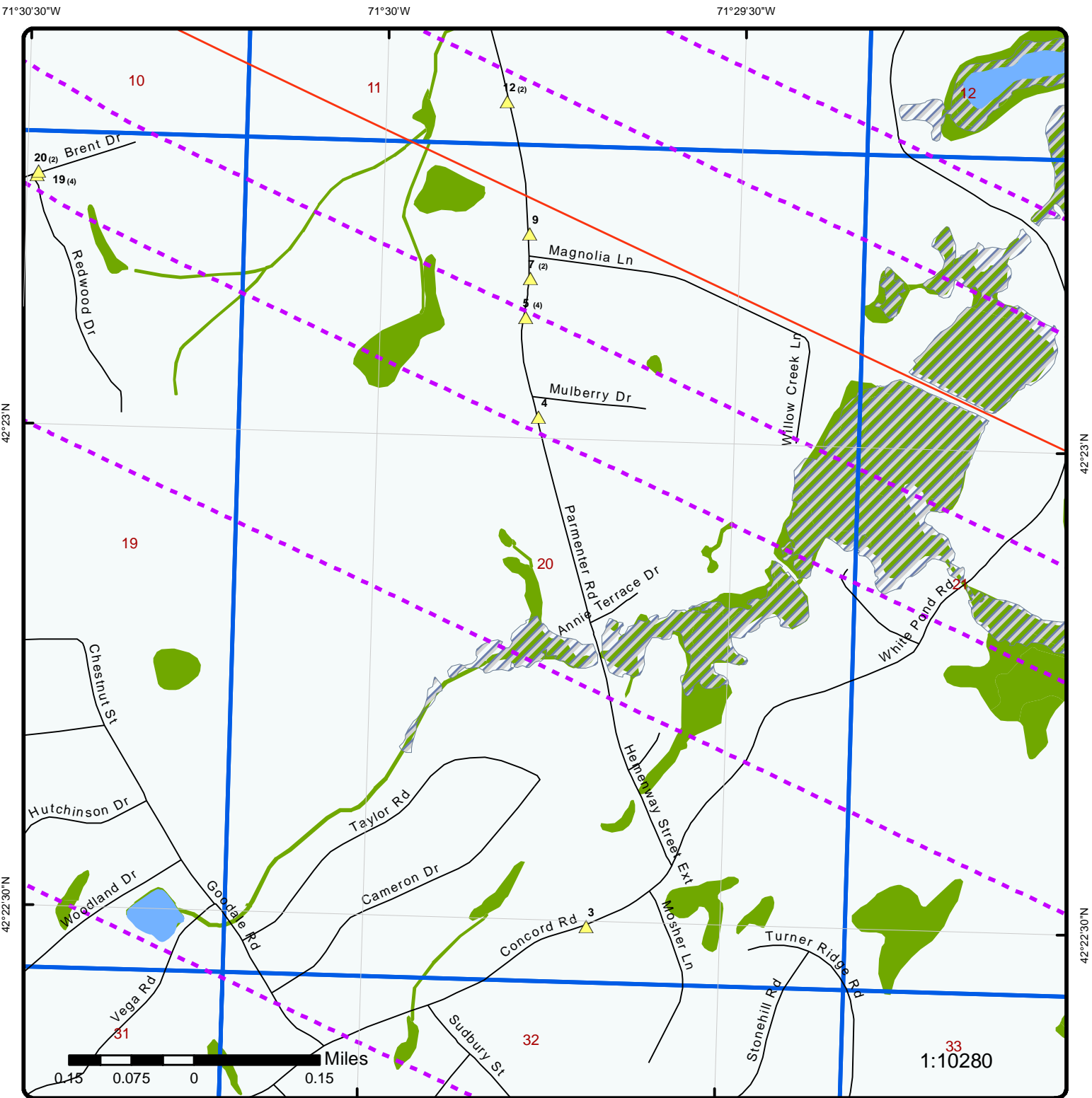


Grid : 19

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



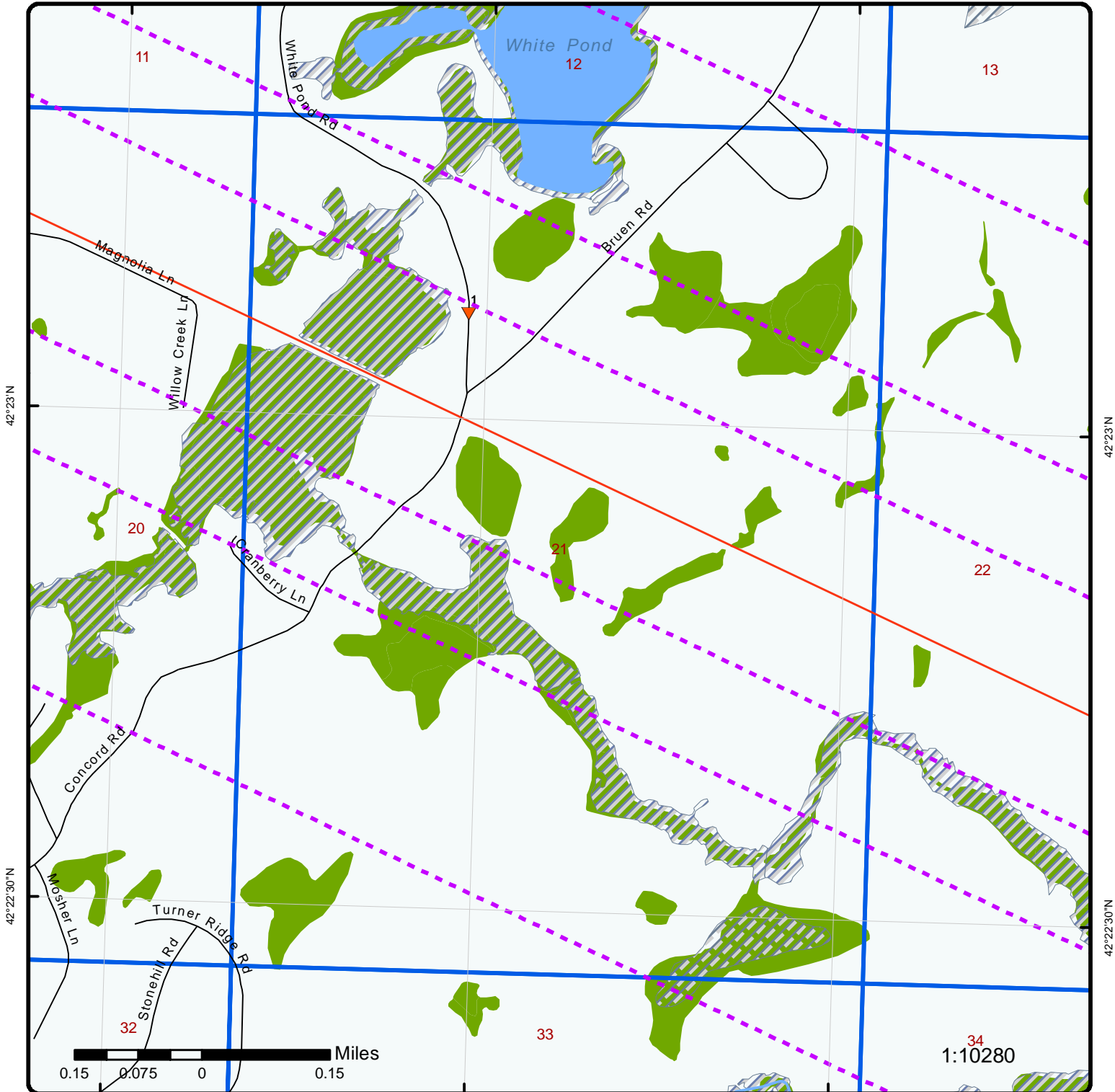
Grid : 20

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



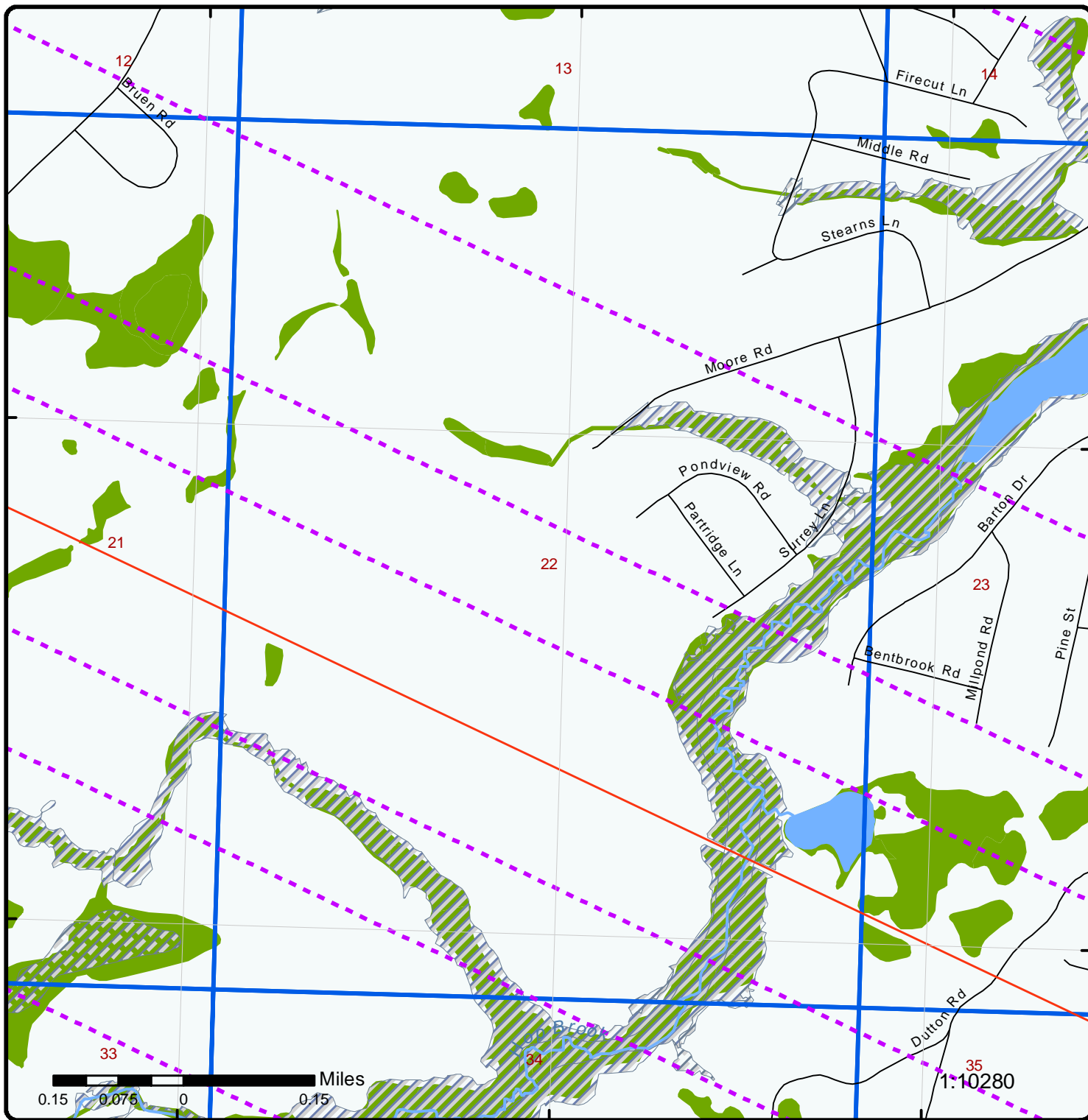
Grid :21

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

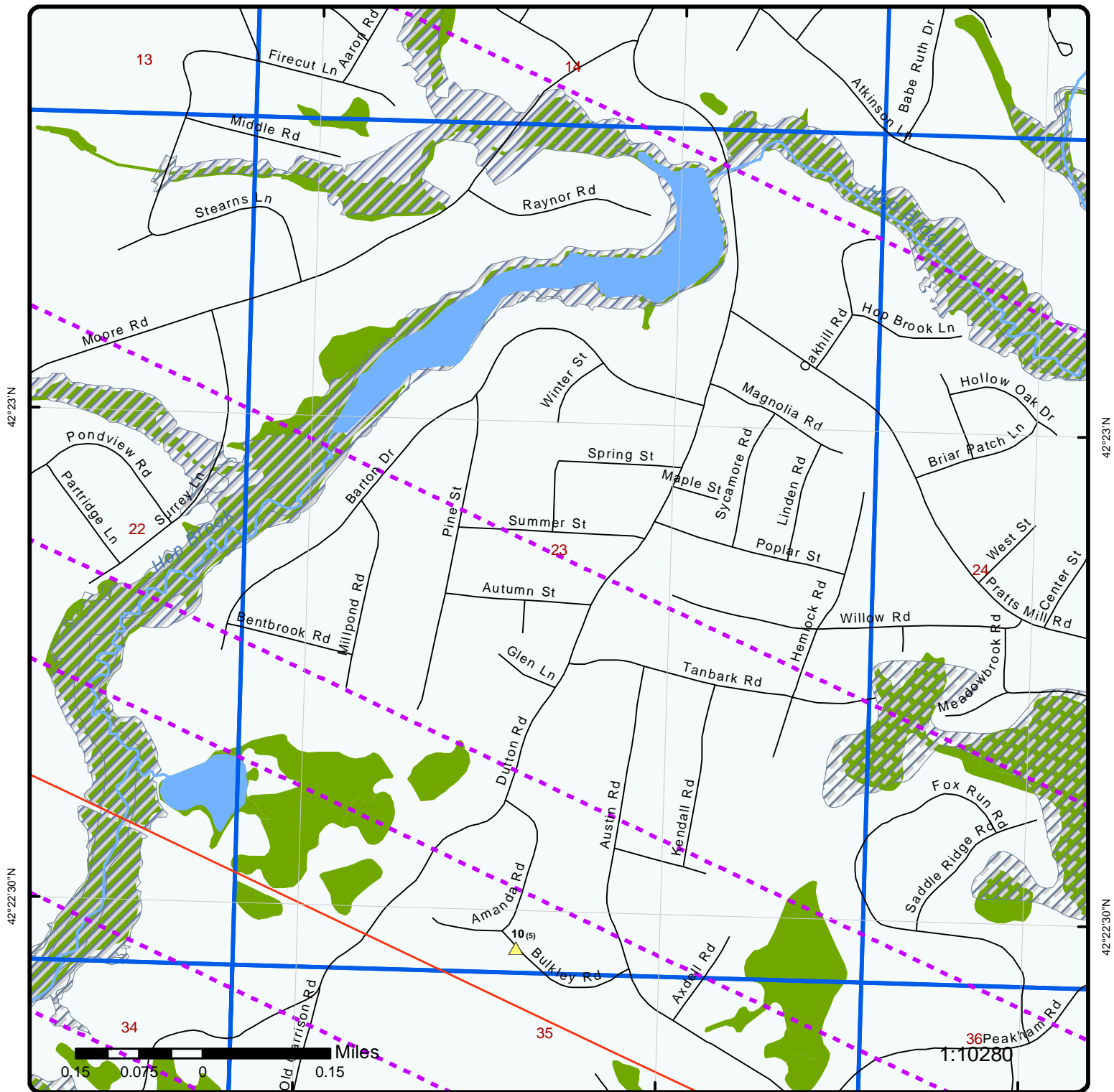


Grid : 22

Order Number: 20302700358
Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

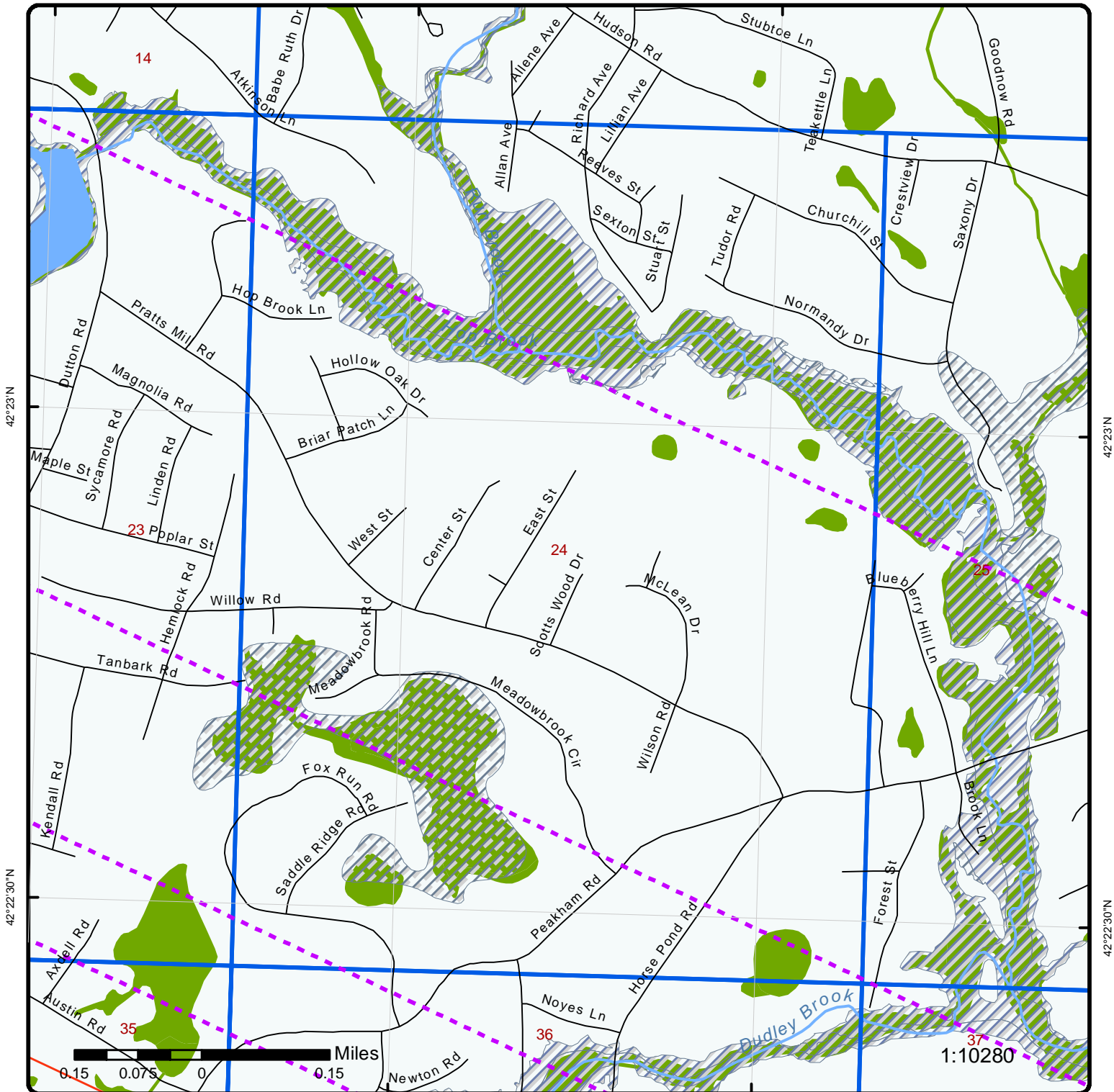


Grid :23

Order Number: 20302700358
Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



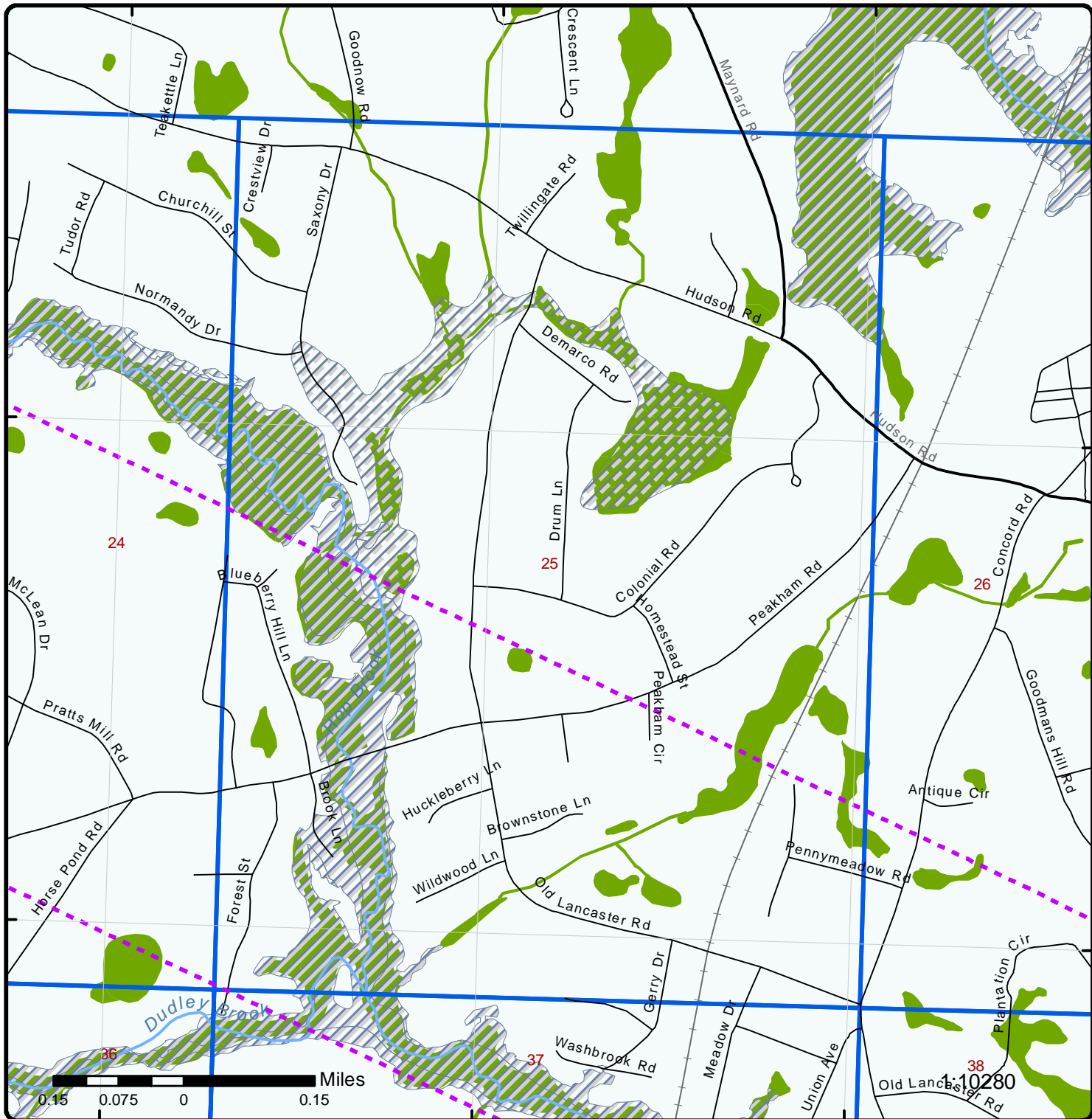
Grid :24

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



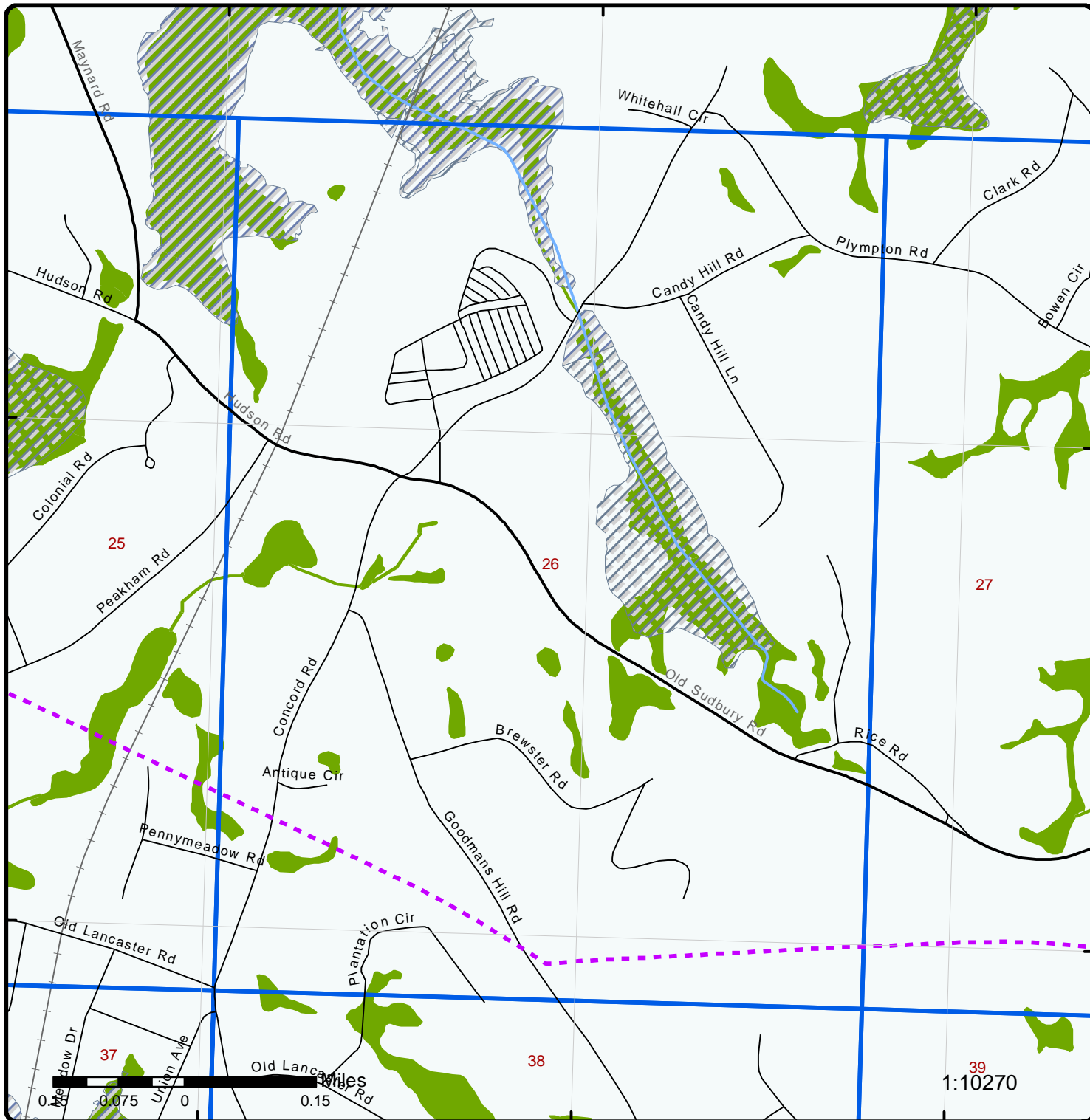
Grid : 25

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



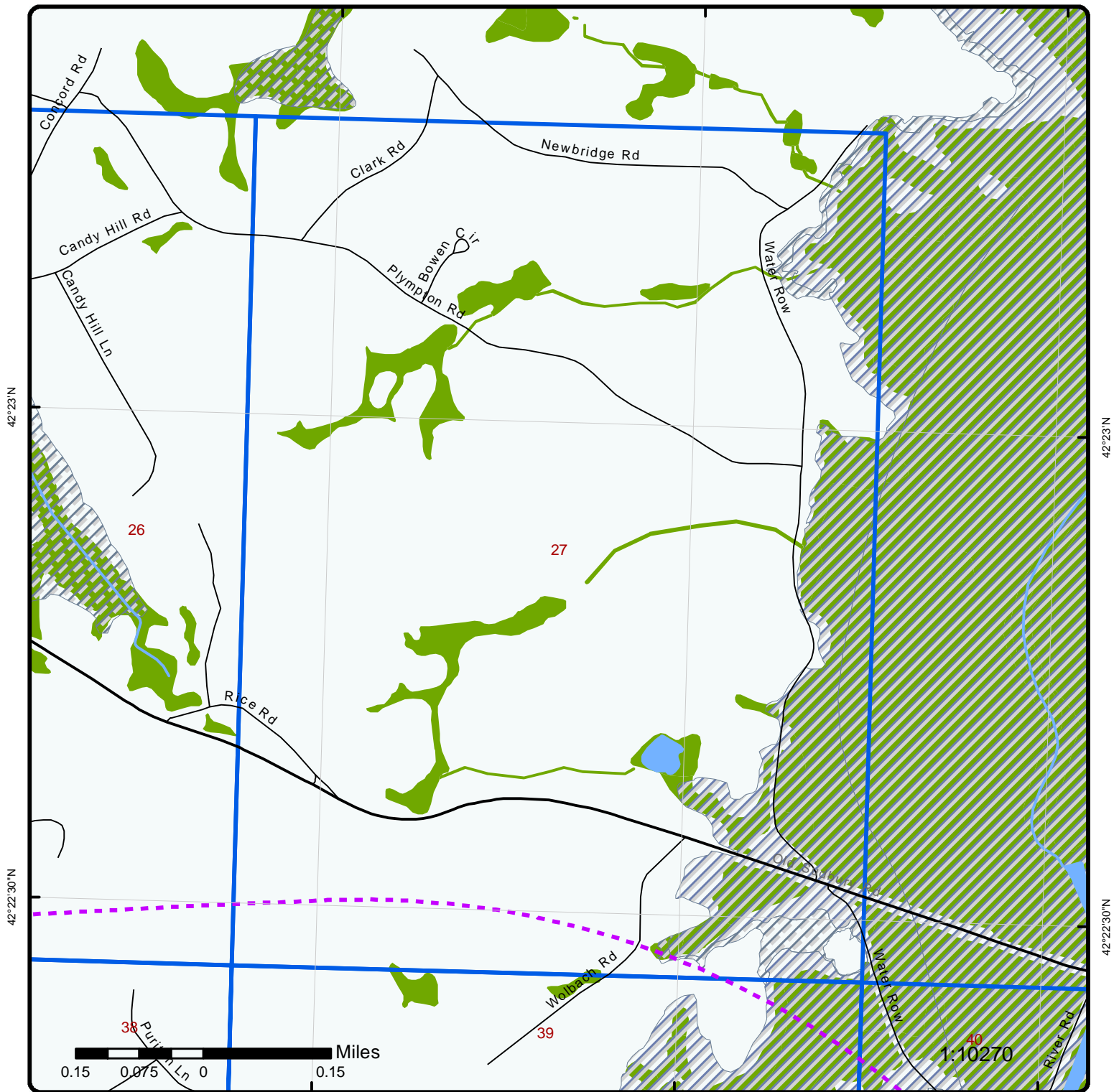
Grid :26

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

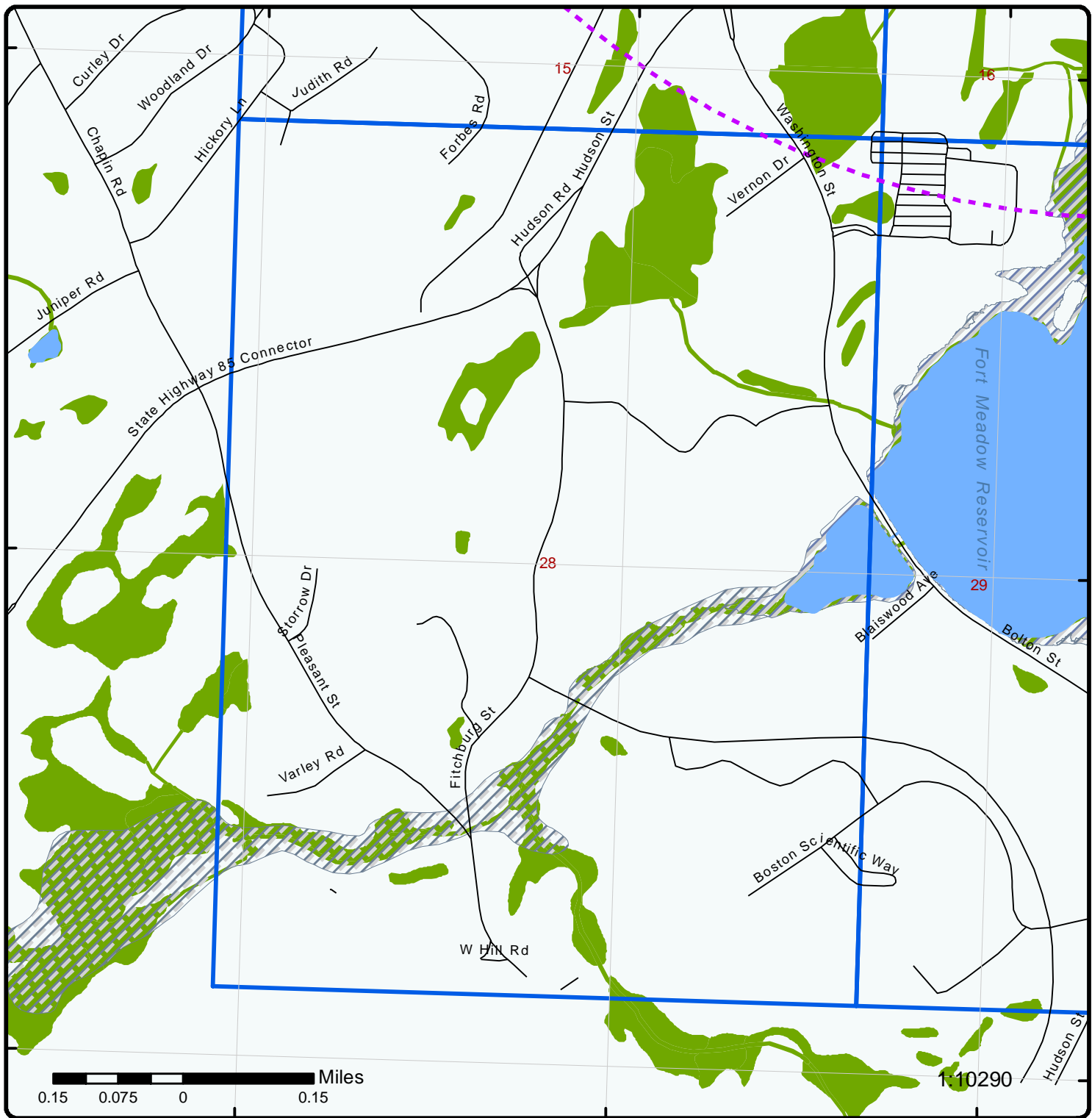


Grid :27

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

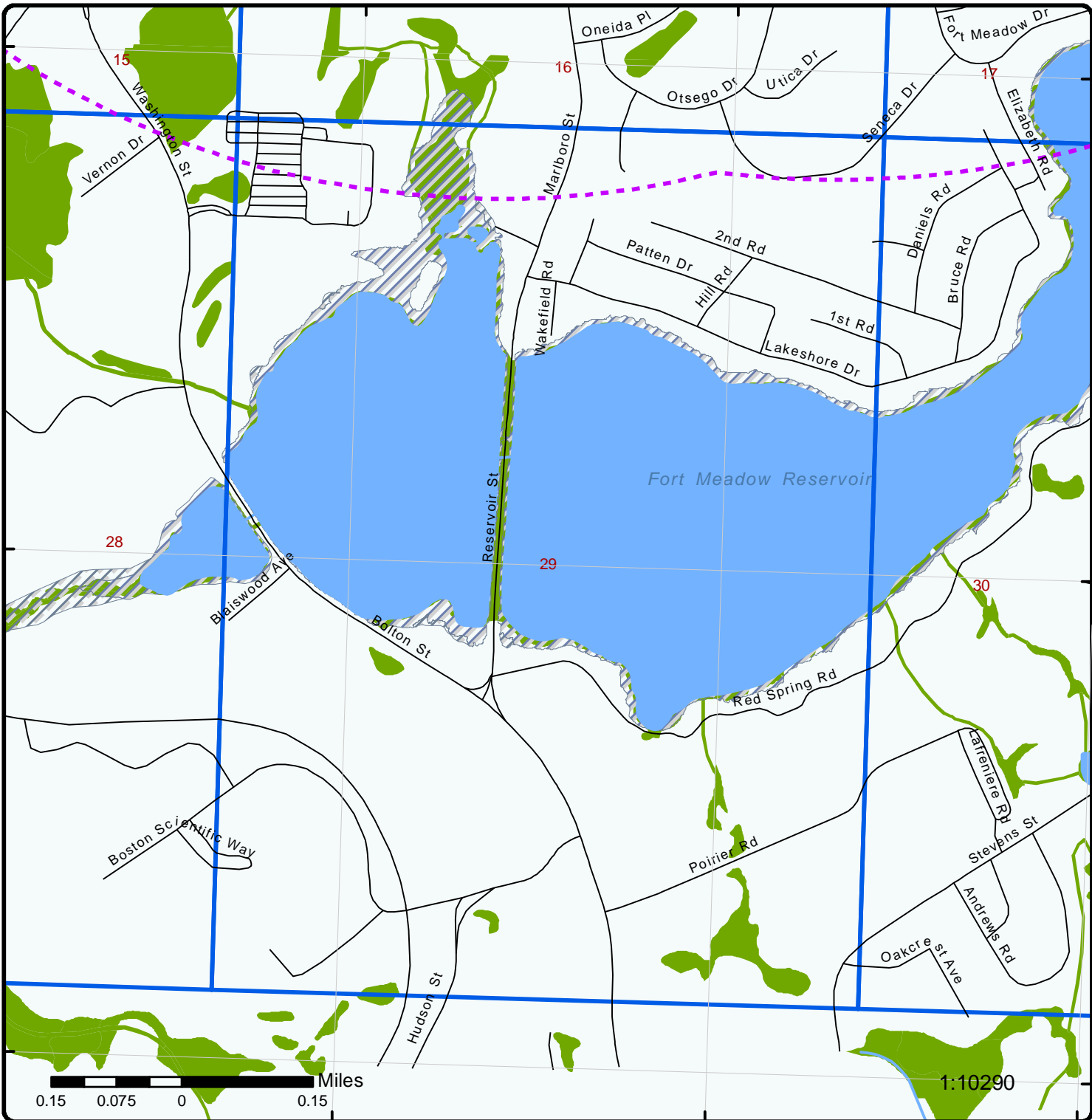


Grid : 28

Order Number: 20302700358
Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



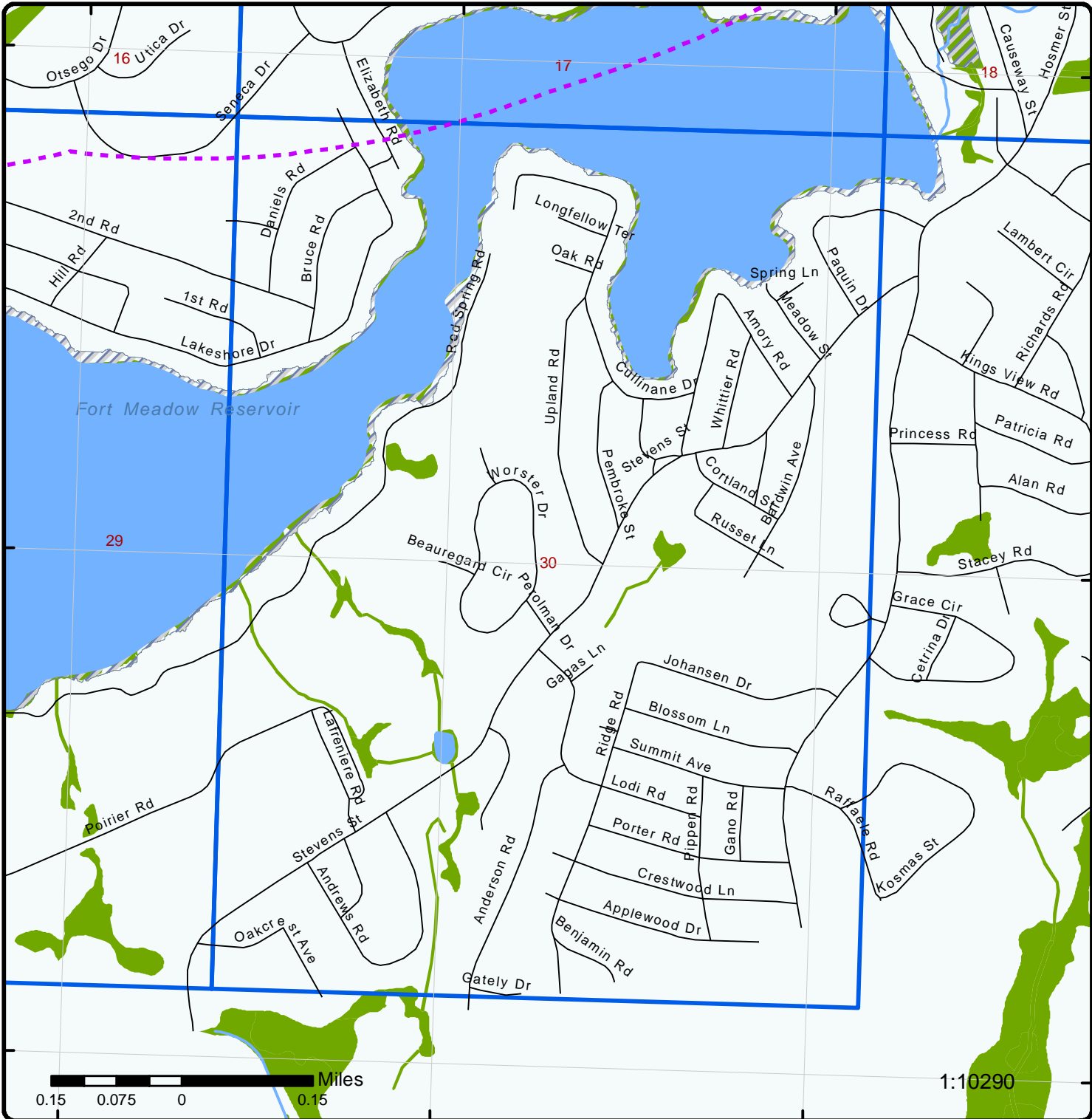
Grid : 29

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



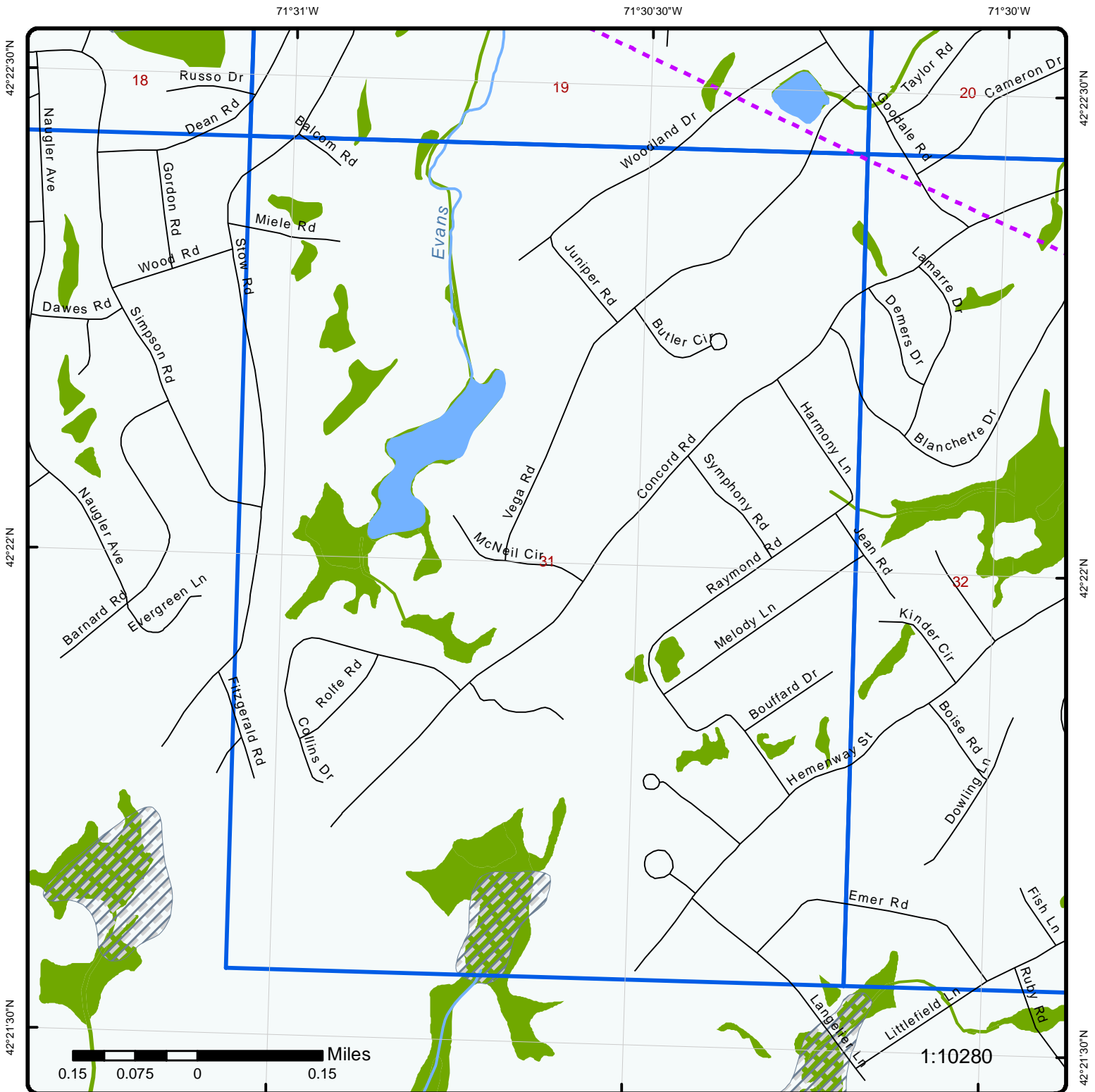
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



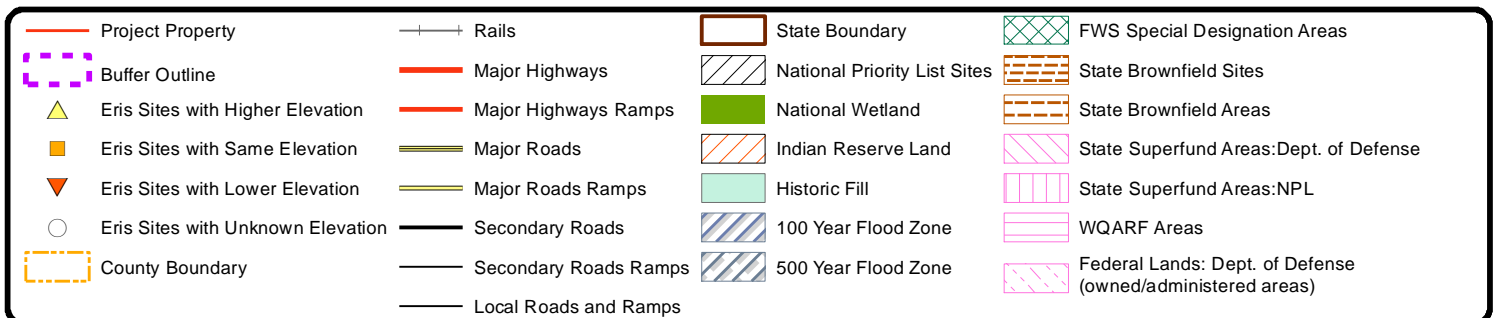
Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

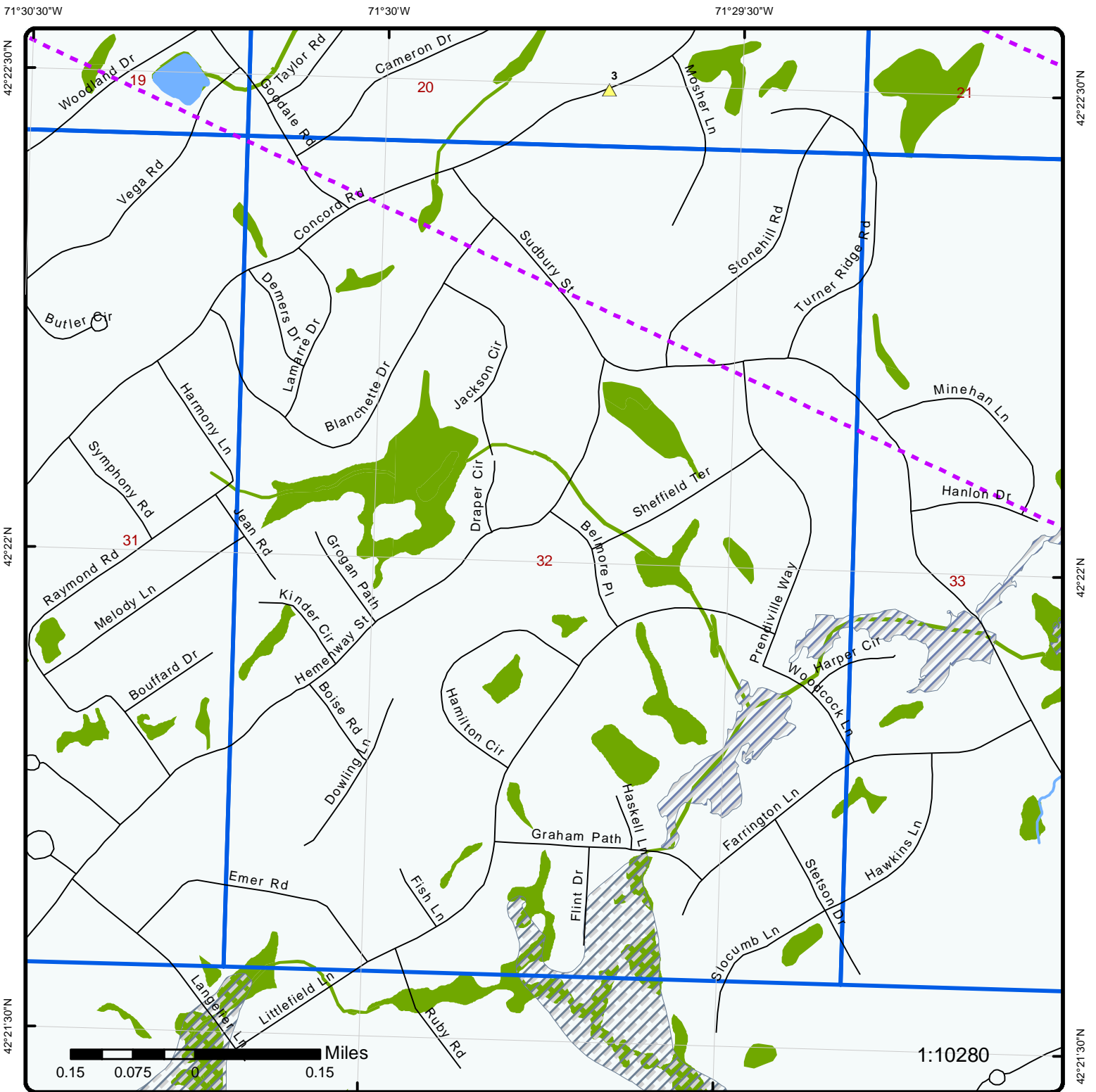


Grid :31

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA





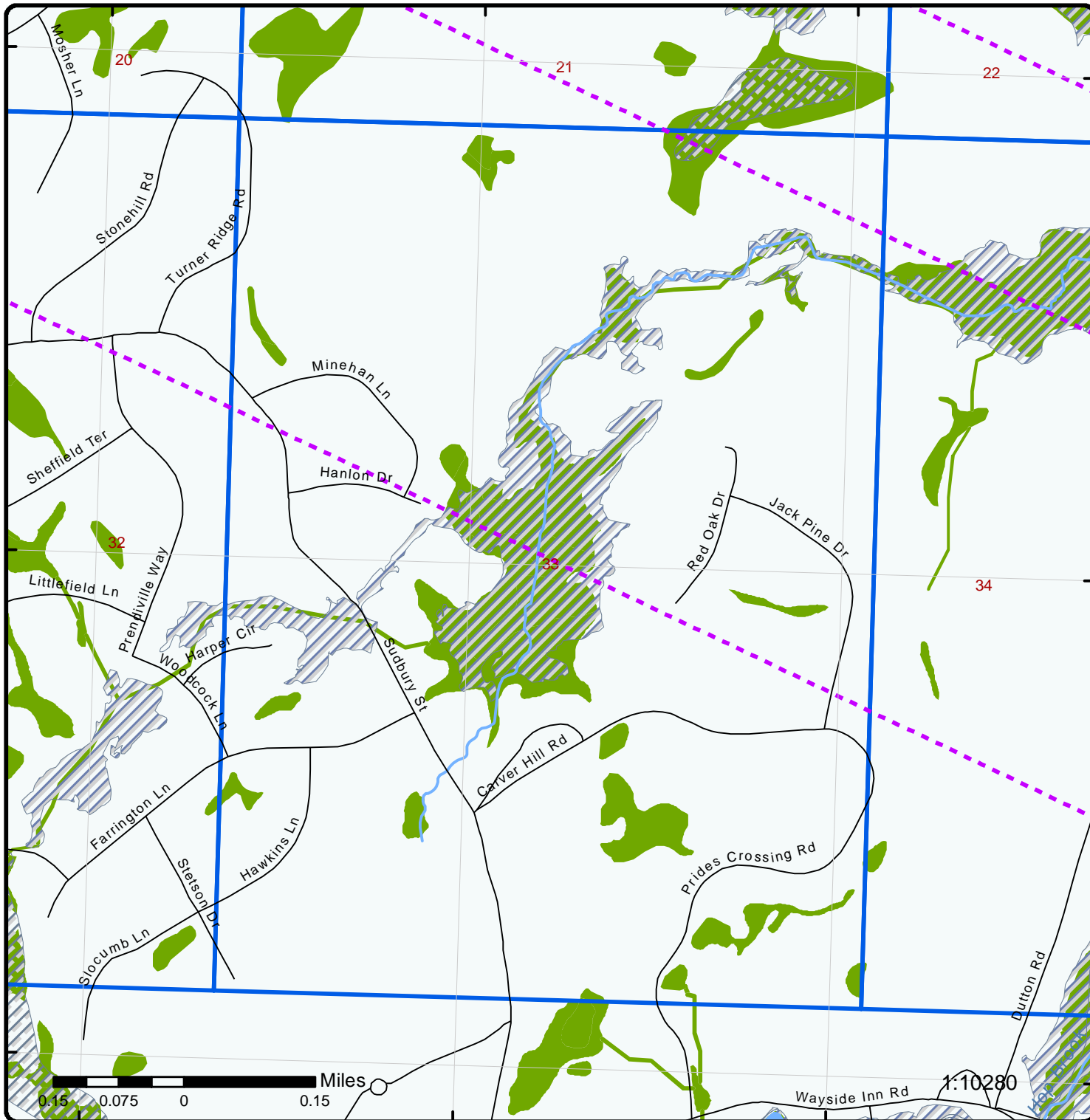
Grid :32

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



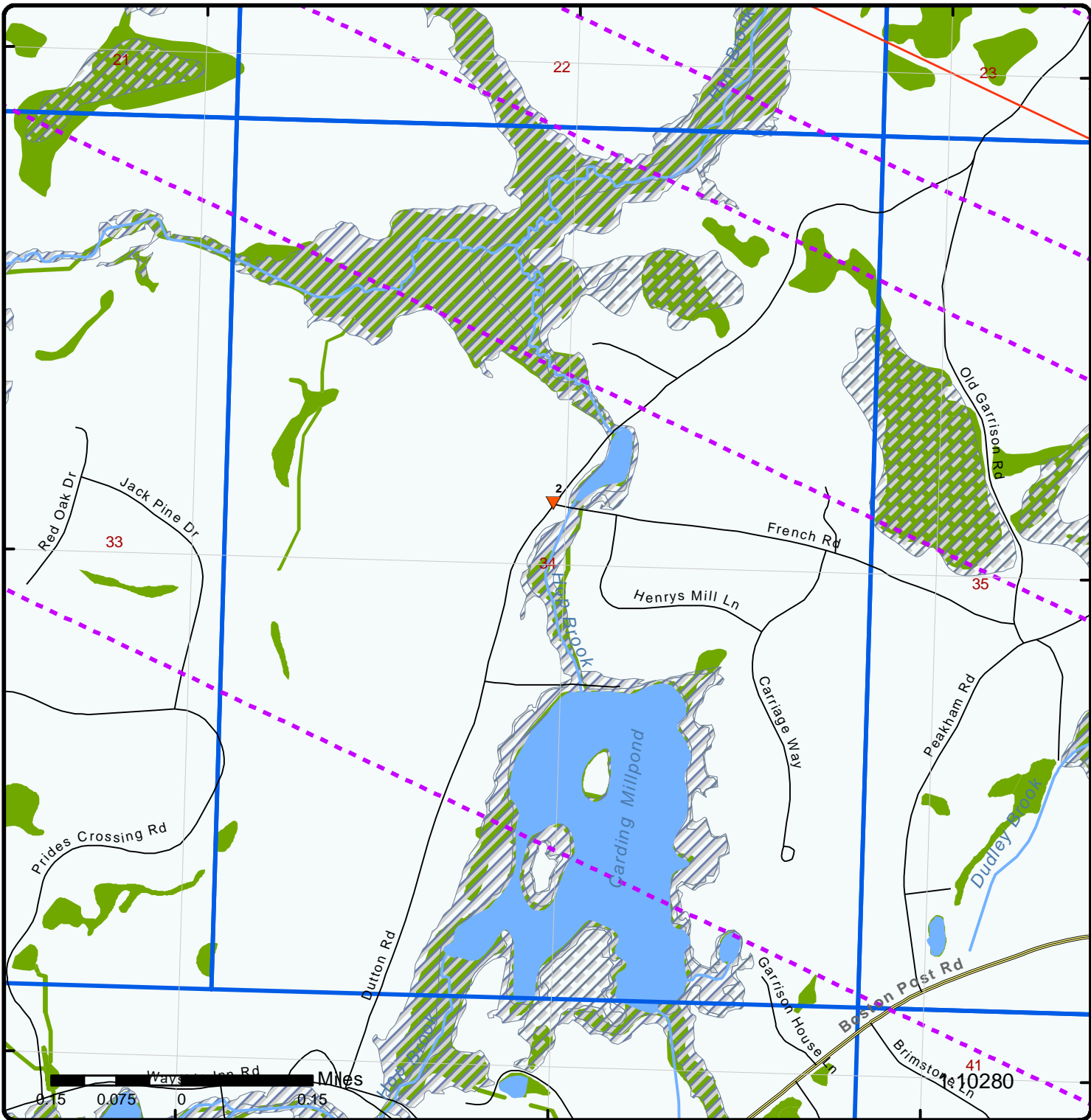
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



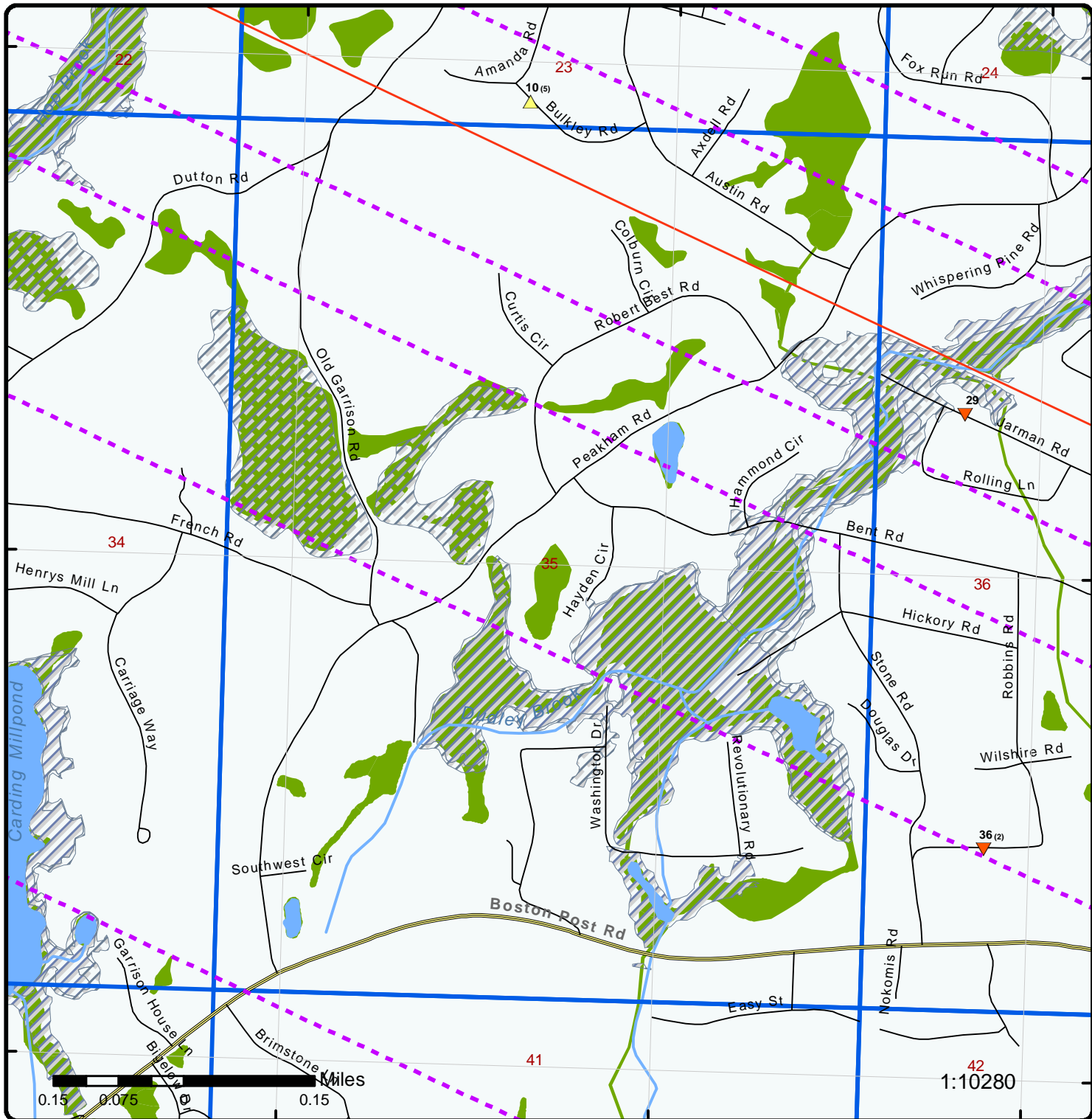
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



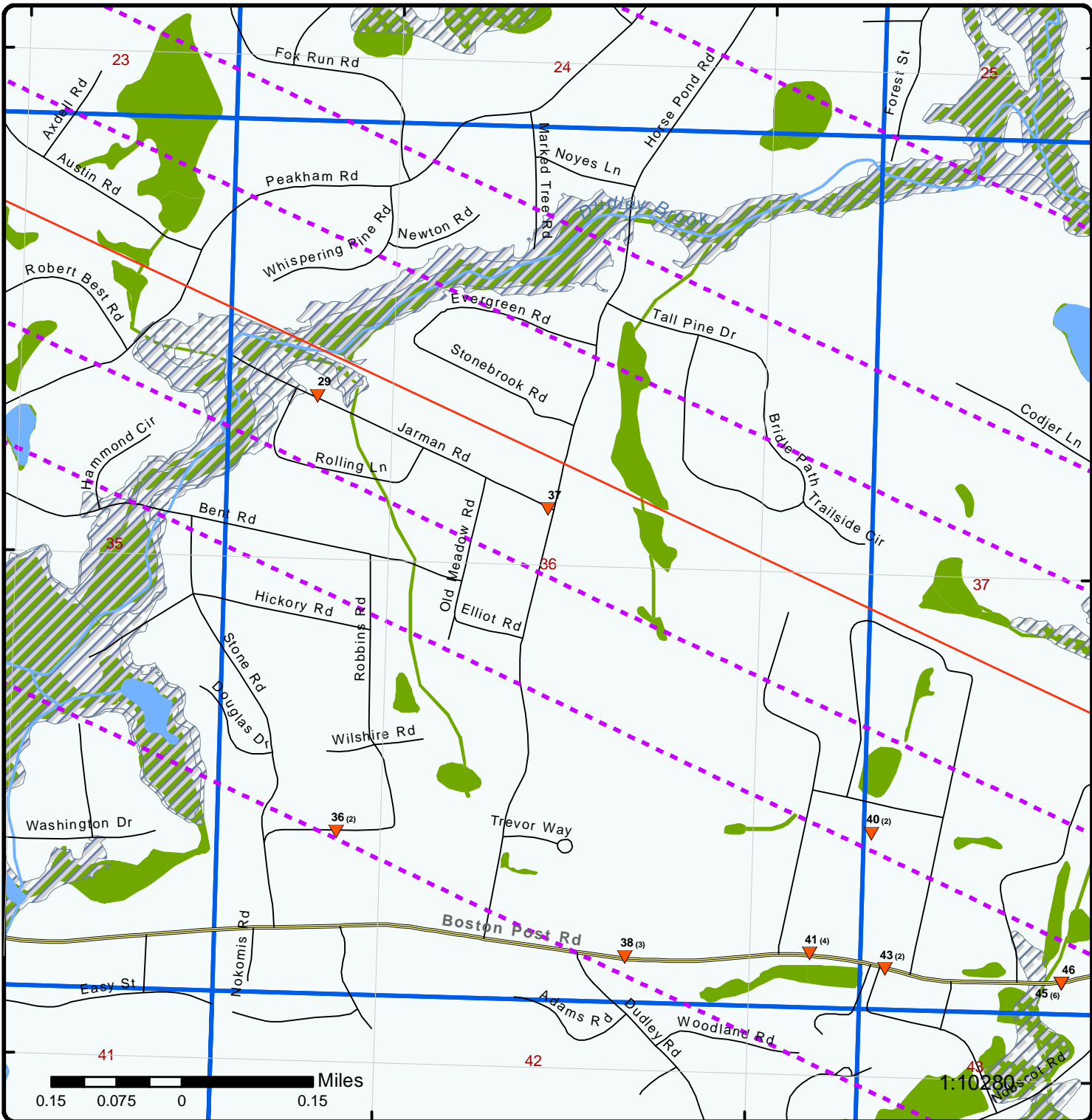
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



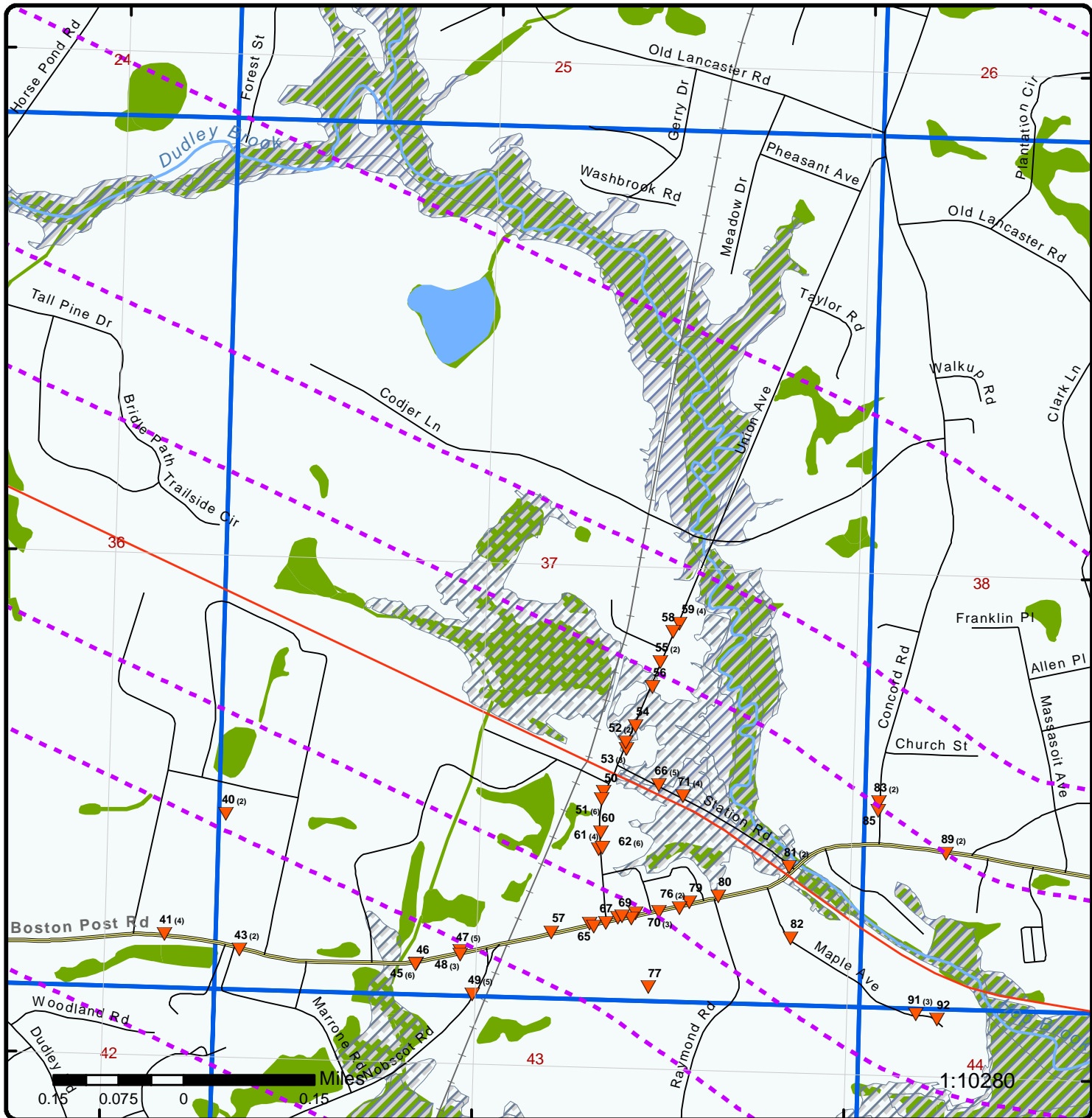
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



	Project Property		Rails		State Boundary		FWS Special Designation Areas
	Buffer Outline		Major Highways		National Priority List Sites		State Brownfield Sites
	Eris Sites with Higher Elevation		Major Highways Ramps		National Wetland		State Brownfield Areas
	Eris Sites with Same Elevation		Major Roads		Indian Reserve Land		State Superfund Areas: Dept. of Defense
	Eris Sites with Lower Elevation		Major Roads Ramps		Historic Fill		State Superfund Areas: NPL
	Eris Sites with Unknown Elevation		Secondary Roads		100 Year Flood Zone		WQARF Areas
	County Boundary		Secondary Roads Ramps		500 Year Flood Zone		Federal Lands: Dept. of Defense (owned/administered areas)
			Local Roads and Ramps				



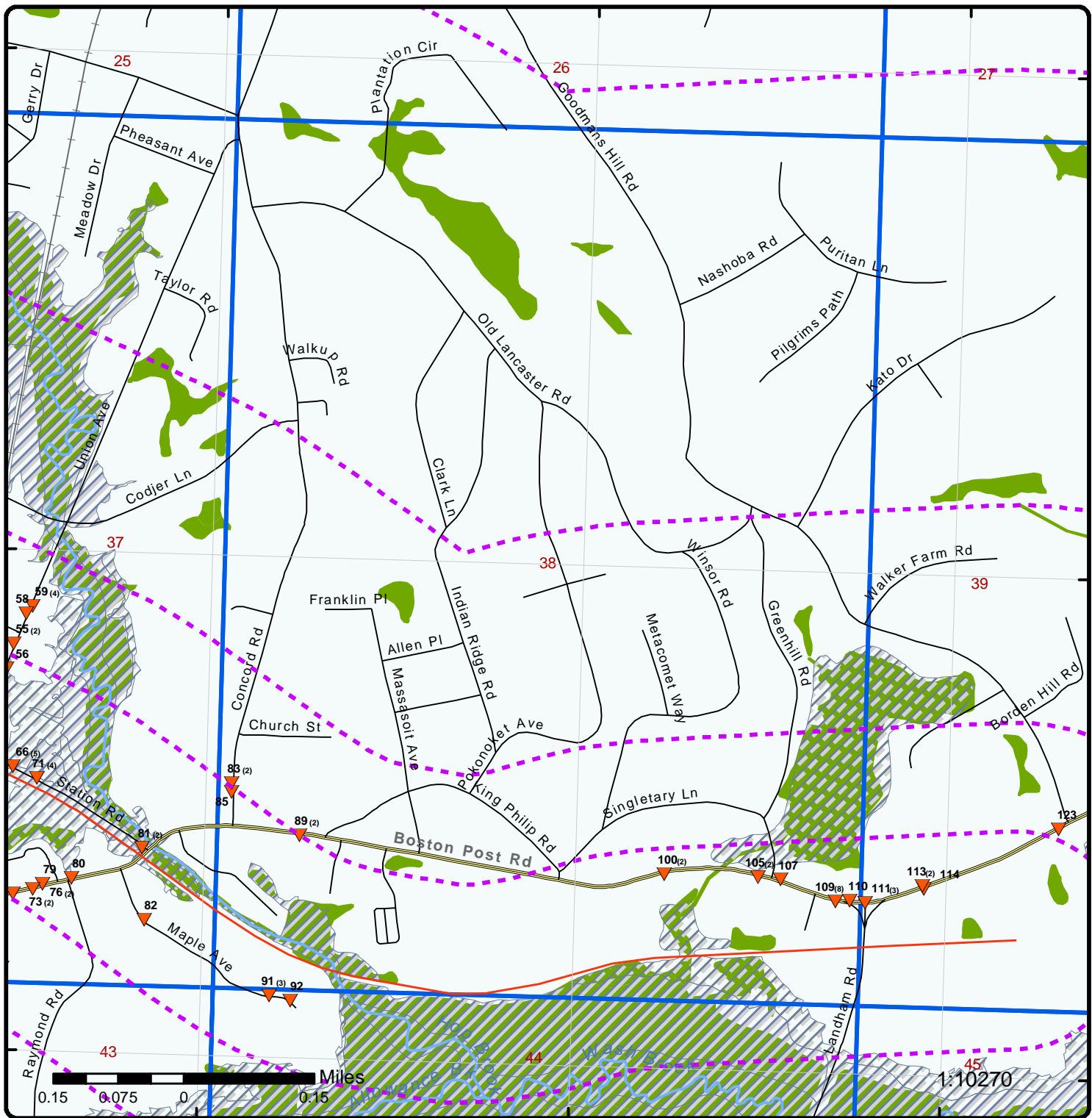
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Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

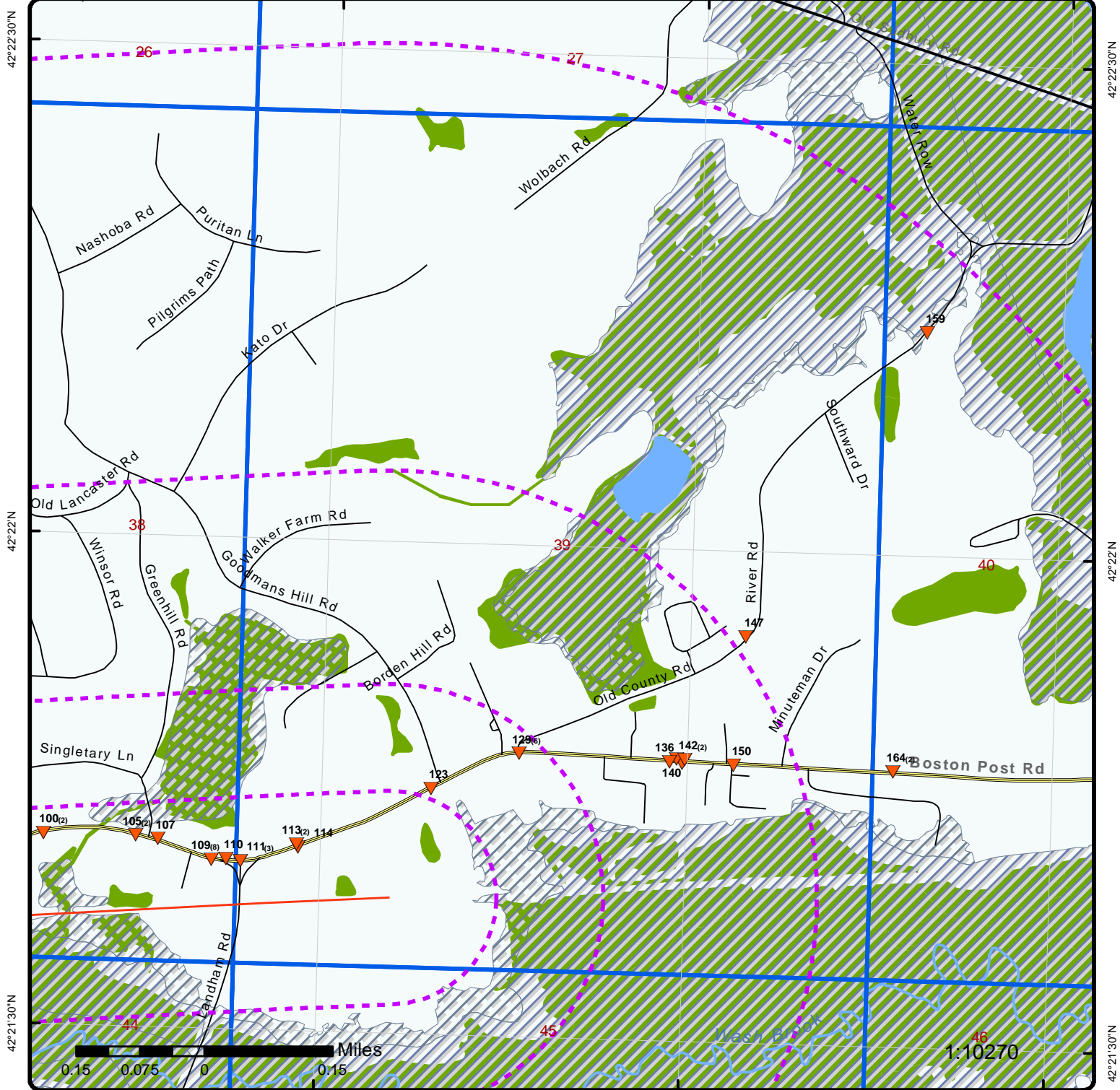


Grid :38

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

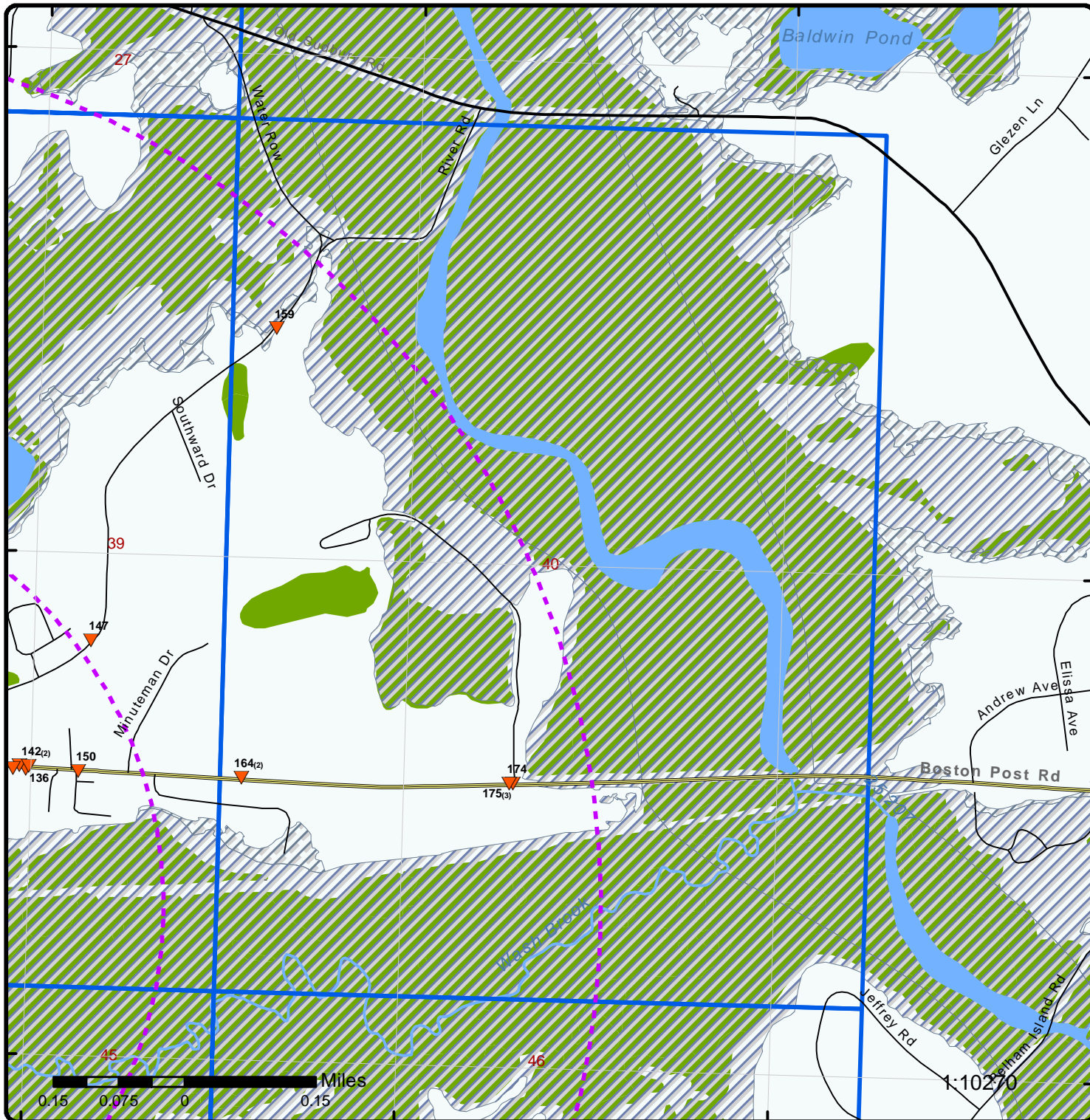


Grid :39

Order Number: 20302700358
 Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas:Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas:NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



Grid : 40

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

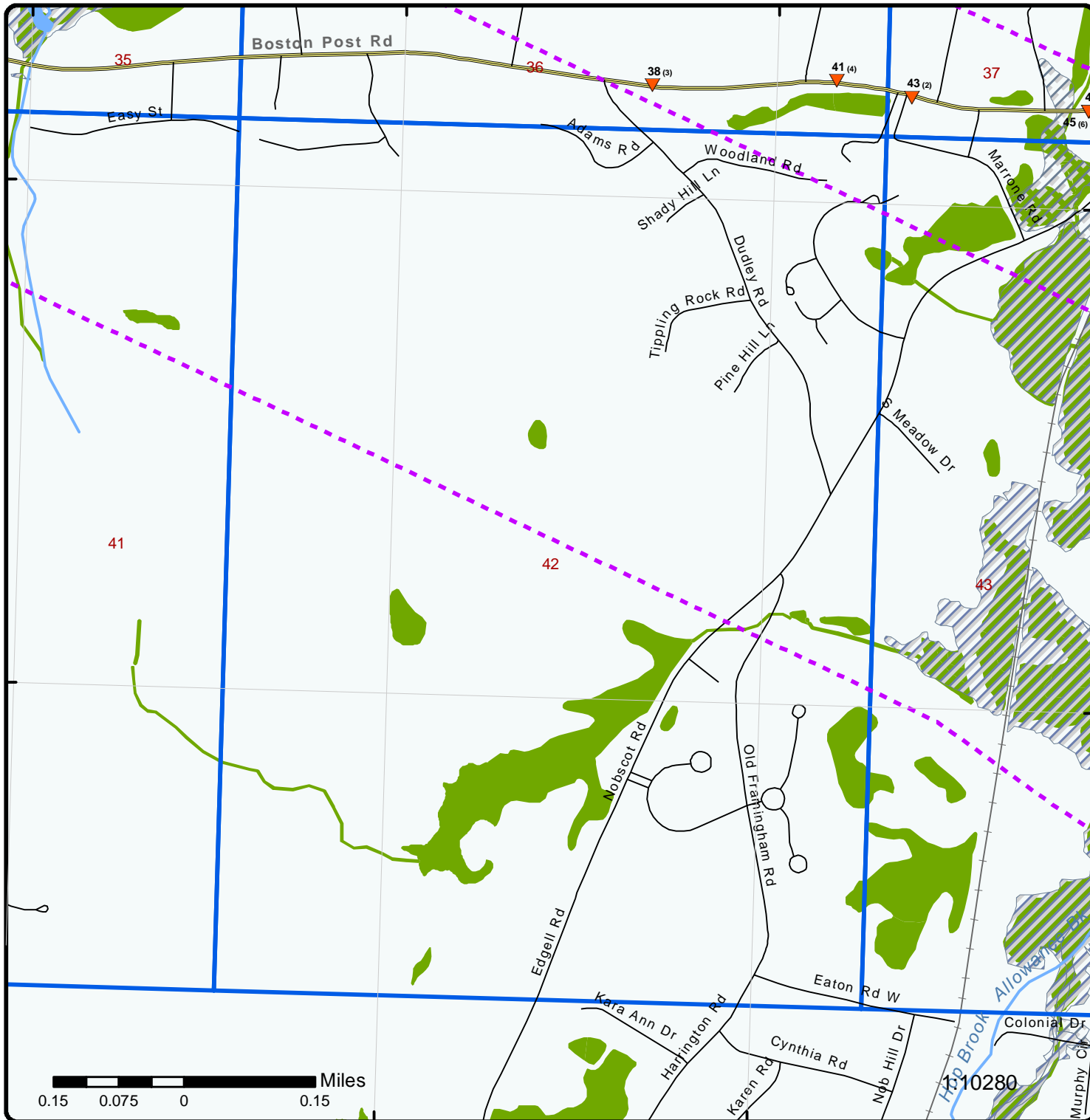


Grid : 41

Order Number: 20302700358
Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



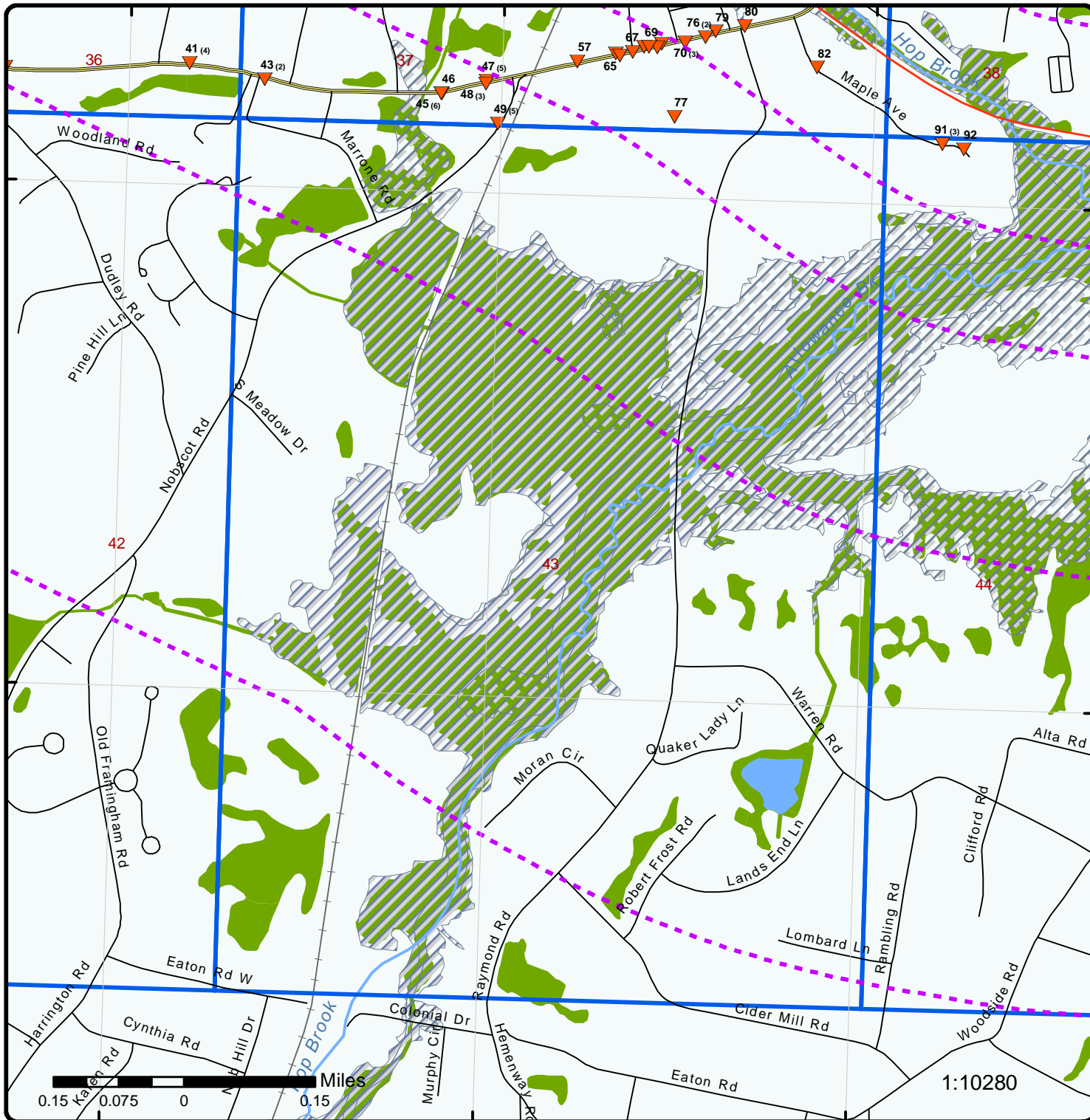
Grid : 42

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



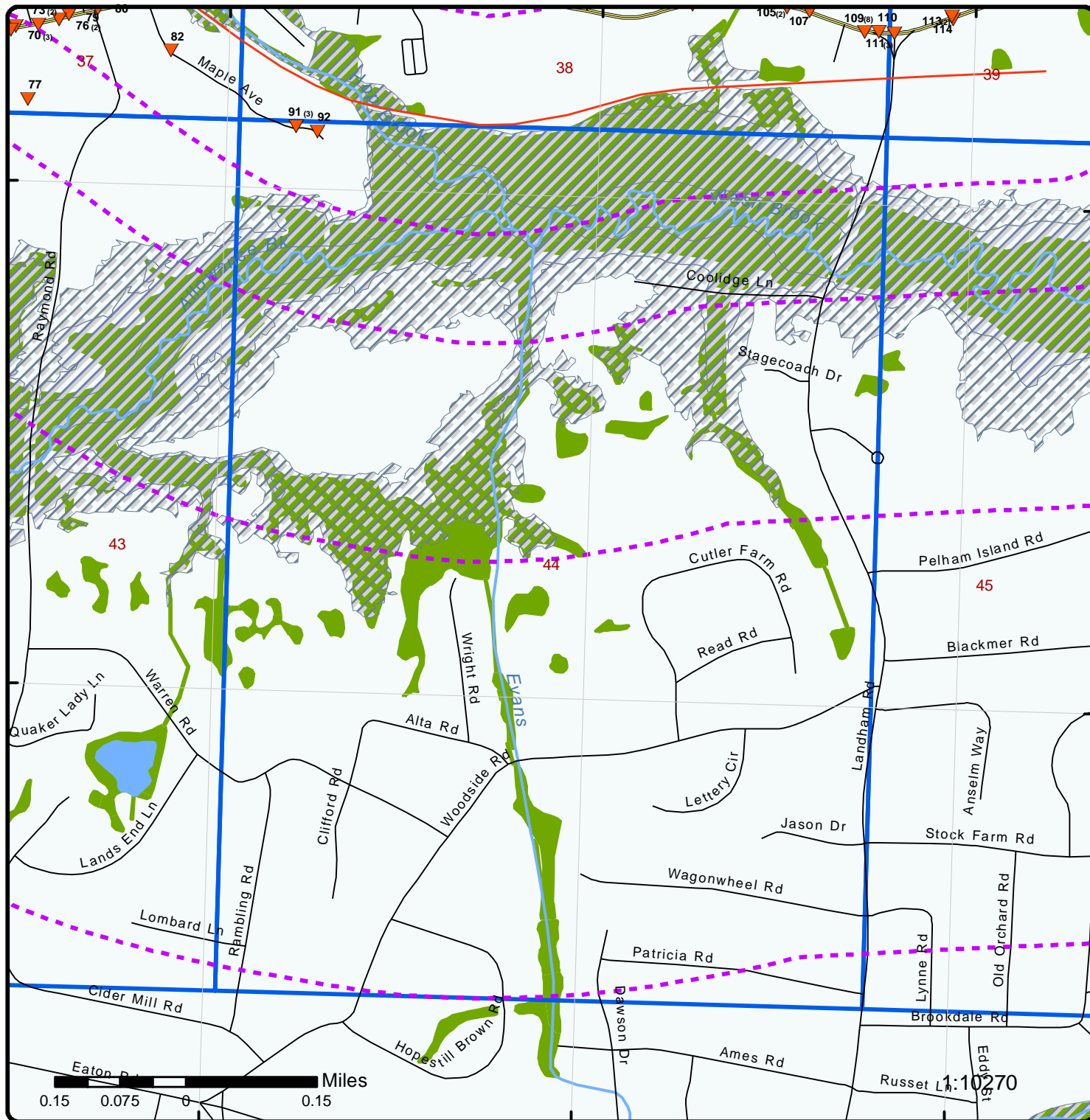
Grid : 43

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



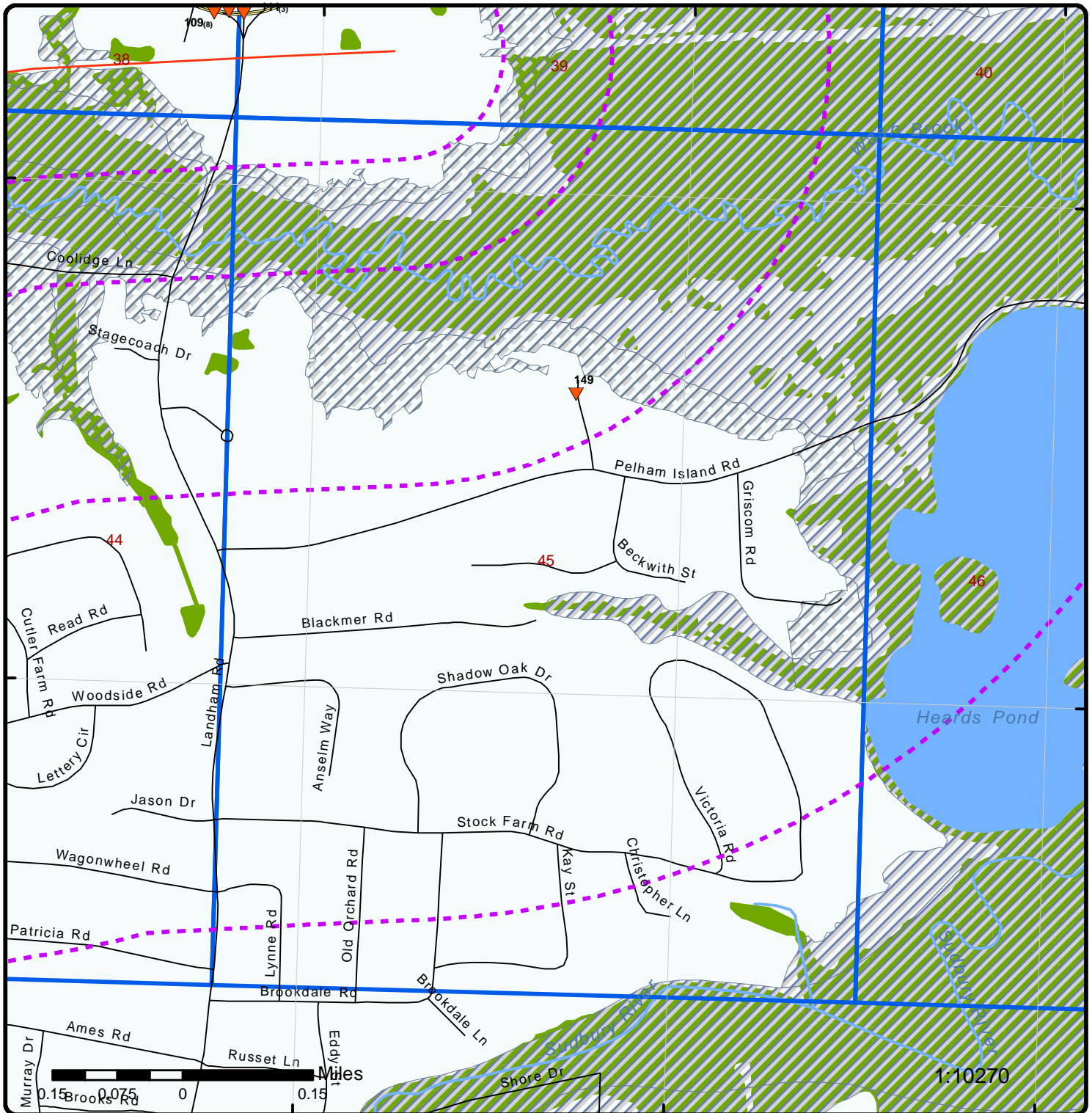
Grid : 44

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



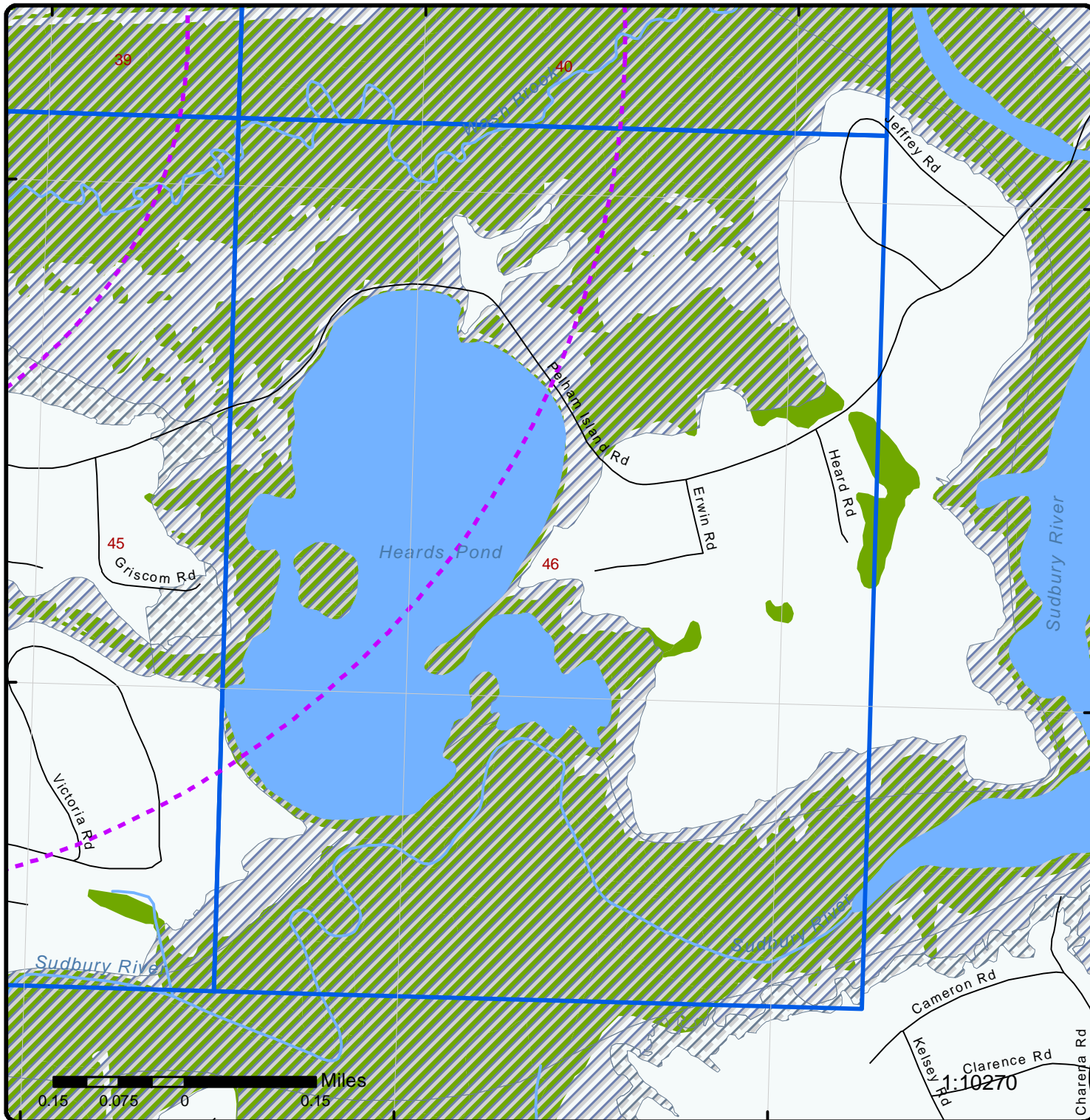
Grid : 45

Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		



Grid : 46

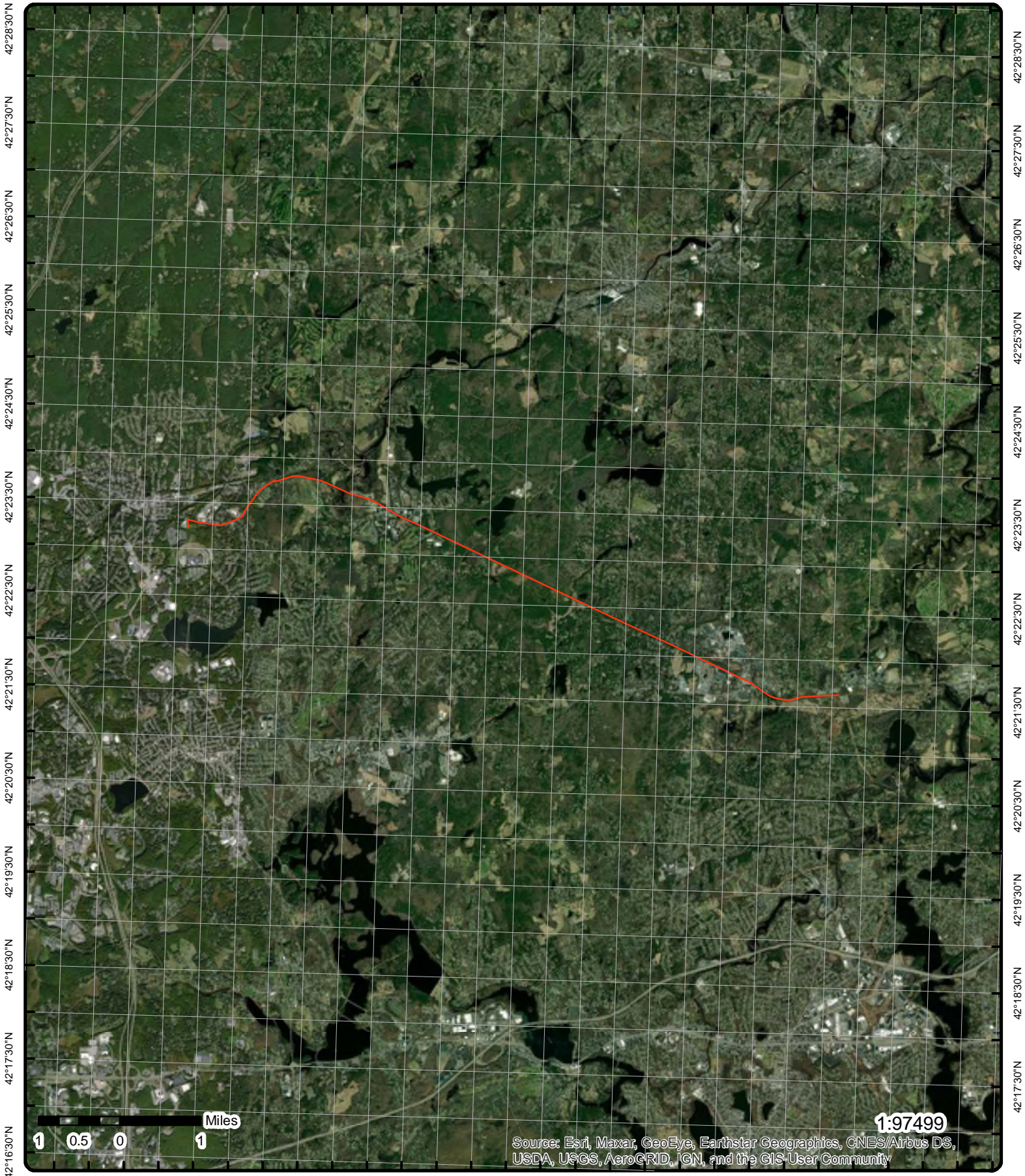
Order Number: 20302700358

Address: Middlesex County, Sudbury/Hudson, MA



Project Property	Rails	State Boundary	FWS Special Designation Areas
Buffer Outline	Major Highways	National Priority List Sites	State Brownfield Sites
Eris Sites with Higher Elevation	Major Highways Ramps	National Wetland	State Brownfield Areas
Eris Sites with Same Elevation	Major Roads	Indian Reserve Land	State Superfund Areas: Dept. of Defense
Eris Sites with Lower Elevation	Major Roads Ramps	Historic Fill	State Superfund Areas: NPL
Eris Sites with Unknown Elevation	Secondary Roads	100 Year Flood Zone	WQARF Areas
County Boundary	Secondary Roads Ramps	500 Year Flood Zone	Federal Lands: Dept. of Defense (owned/administered areas)
	Local Roads and Ramps		

71°35'W 71°34'W 71°33'W 71°32'W 71°31'W 71°30'W 71°29'W 71°28'W 71°27'W 71°26'W 71°25'W 71°24'W 71°23'W 71°22'W



Aerial Year: 2003

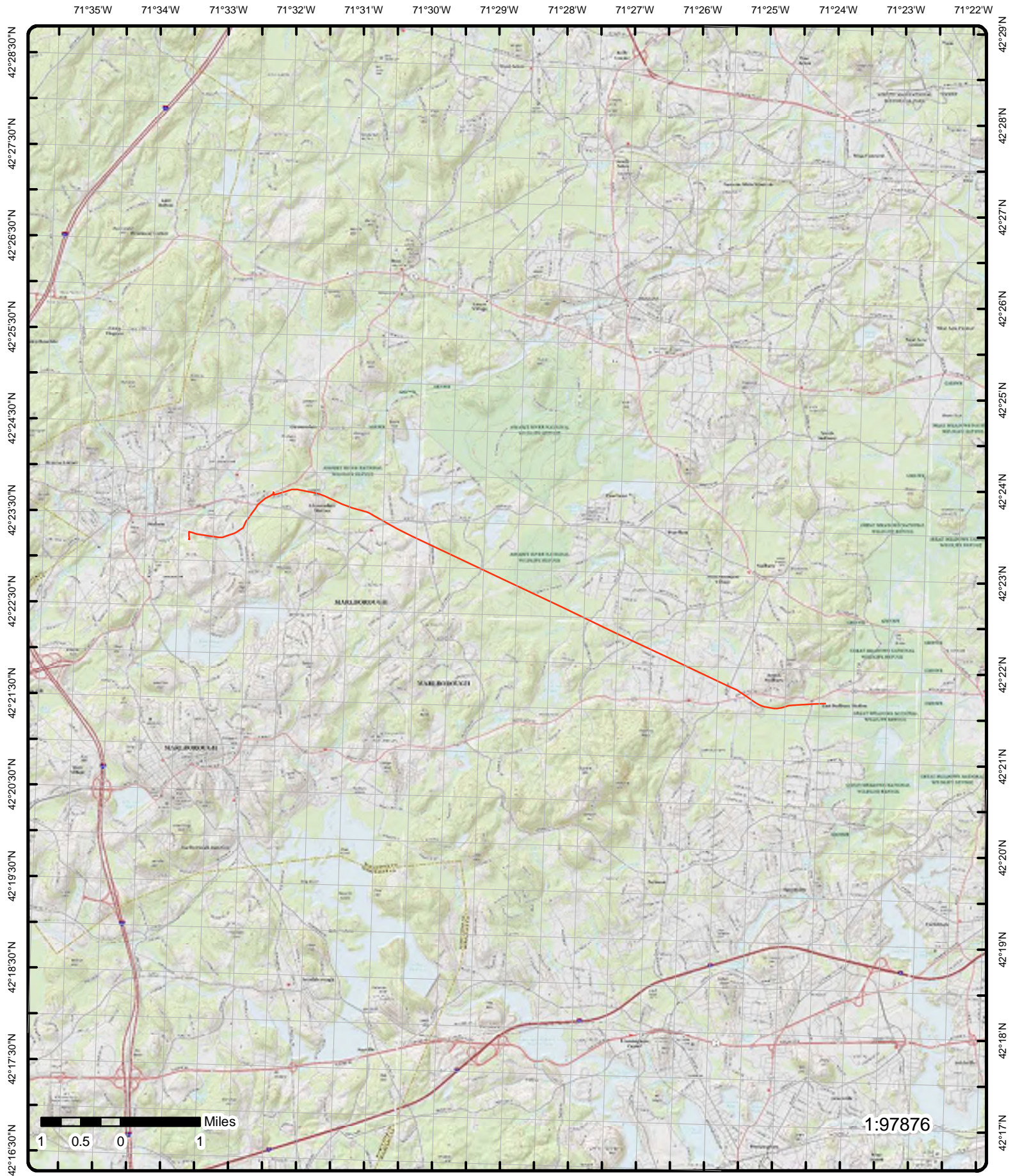
Address: Middlesex County, Sudbury/Hudson, MA

Source: ESRI World Imagery

Order Number: 20302700358



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Topographic Map

Year: 2015

Order Number: 20302700358

Address: Middlesex County, MA



Quadrangle(s): Framingham, MA; Hudson, MA; Maynard, MA; Concord, MA; Marlborough, MA; Natick, MA

Source: USGS Topographic Map

© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<u>1</u>	1 of 1	NW	0.11 / 600.75	188.96 / -5	NO LOCATION AID PARMENTER RD AND WHITE POND RD HUDSON MA 01749-0000	SPILLS

RTN: 2-0012521

Primary ID:

Compliance Status:

Current Status: RAO

Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated

Current Date: 11/24/1998

RAO Class: A1

RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated

Chemical Type:

Release Type: RAO

Location Type: ROADWAY

Category: TWO HR

Initial Status Date: 11/24/1999

Notification Date: 11/24/1998

Source: 5 GALLON, BUCKETS

Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0012521>

Phase:

Phase Desc:

Office Town: HUDSON

Actions

Action: REL

Status: REPORT

RAO Class: A1

Date: 11/24/1998

Status Description: Reportable Release under MGL 21E

Action: RAO-D

Status: RAORCD

RAO Class: A1

Date: 11/24/1998

Status Description: RAO Statement Received (retired)

Chemical Information

Chemical: OIL

Amount: 10

Unit: GAL

Response Action Information

Response Action Type: REL Potential Release or Threat of Release

Status: REPORT Reportable Release or Threat of Release

Submittal Date: 11/24/1998

RAO Class:

Activity Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Type: RAO-D RAO - DEP Lead
Status: RAORCD RAO Statement Received
Submittal Date: 11/24/1998
RAO Class: A1
Activity Use Limitation:

RAO Information

Class: A1
Method: N
GW Category:
Soil Category:

Location Information

Location: ROADWAY

Source Information

Source: 5 GALLON
Source: BUCKETS

2	1 of 1	SE	0.64 / 3,384.85	182.51 / -11	NO LOCATION AID 161 DUTTON RD SUDBURY MA	RELEASE
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RTN:	3-0020880	Phase:	PHASE II
Compliance Date:	1/14/2003	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	7/2/2001	Site Name (BWSC):	NO LOCATION AID
Source:	UNKNOWN	Address (BWSC):	161 DUTTON RD
Reporting Category:	72 HR	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	161 DUTTON RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0020880		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0020880		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: FUEL OIL #2
Amount: 0.5
Units: INCH

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 5400
Units: PPB

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 2300
Units: PPB

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	02-Jul-2001	L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	08-Jul-2002				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	STRCVD				F Name:	
Date:	08-Jul-2002				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RAORCD				F Name:	
Date:	14-Jan-2003				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	PLANWR				F Name:	
Date:	08-Jul-2002				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	08-Jul-2002				L Name:	
Action:	PHASEI					
Action Description:		Phase 1				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	28-Aug-2001				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	02-Jul-2001				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	SOW				F Name:	
Date:	30-Sep-2002				L Name:	
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Scope of Work Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 08-Jul-2002 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TIERII **F Name:**
Date: 08-Jul-2002 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 08-Jul-2002 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 03-Apr-2002 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 02-Aug-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 14-Jan-2003 **OHM:** Oil
OFC Notification: 02-Jul-2001
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

<u>3</u>	1 of 1	W	0.76 / 4,004.63	255.59 / 62	ABANDONED HOUSE 1073 CONCORD RD MARLBOROUGH MA	RELEASE
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RTN: 2-0018760 **Phase:**
Compliance Date: 4/1/2013 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** RESIDENTIAL
Notification Date: 12/5/2012 **Site Name (BWSC):** ABANDONED HOUSE
Source: AST **Address (BWSC):** 1073 CONCORD RD
Reporting Category: TWO HR **Town (BWSC):** MARLBOROUGH
Site (EEA Data): ABANDONED HOUSE **Zip Code (BWSC):**
Rel Add(EEA Data): 1073 CONCORD RD **OFC Town (BWSC):** MARLBOROUGH
Town (EEA Data): MARLBOROUGH
Phase Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018760
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018760
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 10
Units: GAL

Action Information (BWSC)

Status: TSAUD **F Name:**
Date: 05-Apr-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDD1U **F Name:**
Date: 05-Nov-2012 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 05-Dec-2012 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 01-Apr-2013 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 01-Apr-2013 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 01-Apr-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 05-Dec-2012 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A2
 RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: Category: TWO HR
 Current Status: RAO Phase:
 Current St Desc: Response Action Outcome RAO Class: A2
 Current Date: 01-Apr-2013 OHM: Oil
 OFC Notification: 05-Dec-2012
 Phase Desc:
 RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
 Other Rela:

4	1 of 1	WNW	0.23 / 1,228.11	223.98 / 30	WVJV-TV TRANSMITTER SITE 111 PARMENTER RD HUDSON MA 01749	UST
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Facility ID: 9936 Address (Map):
 Owner ID: 4511 City (Map):
 Facility Status: CLOSED Facility Contact:
 Facility Name: WVJV-TV TRANSMITTER SITE Facility Phone:
 Fac Add 1: 111 PARMENTER RD Facility Lat: 42.38145
 Facility City: HUDSON Facility Long: -71.49530
 Fac Name (Map):
 Facility Type: Commercial

Facility Information Details

Con Add 1: Con Phone:
 Con Add 2: Con Email:
 Con City: Update Date: 30-Mar-2009
 Con State: Update By:
 Con Zip:
 Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status: CLOSED Owner Name: HSN BROADCASTING
 Last Inspection Dt: Owner Contact Name:
 Next Insp Due Date: Operator Name: HSN BROADCASTING
 Last Cert Compl Dt: Oper Contact Name:
 Next Cert Compl Due:

Owner Information

Owner Name: HSN BROADCASTING Contact Name:
 Owner Add 1: 71 PARMENTER RD Contact Add 1:
 Owner Add 2: Contact Add 2:
 Owner City Town: HUDSON Contact City Town:
 Owner State: MA Contact State:
 Owner Zip: 01749 Contact Zip:
 Organization Type: Private Contact Phone:
 FR Type: Contact E Mail:
 Business:
 Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Tank ID: 1 Submersible Sump: NO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Install Date:	10-Jul-1985				Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	19-Mar-1990				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Diesel				Interm Sump Sensor:	NO
Capacity:	2000.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					

<u>5</u>	1 of 4	WNW	0.13 / 694.02	209.63 / 16	BOYD COATING RESEARCH CO 51 PARMENTER RD HUDSON MA	RELEASE
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RTN:	2-0000248	Phase:	
Compliance Date:	9/1/1994	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	MANUFACT
Notification Date:	5/7/1987	Site Name (BWSC):	BOYD COATING RESEARCH CO
Source:		Address (BWSC):	51 PARMENTER RD
Reporting Category:	NONE	Town (BWSC):	HUDSON
Site (EEA Data):	BOYD COATING RESEARCH CO	Zip Code (BWSC):	01749
Rel Add(EEA Data):	51 PARMENTER RD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000248		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000248		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		
Report Source:			

Chemical Information (BWSC)

Chemical:	VOCS
Amount:	
Units:	

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	01-Sep-1994	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	TSAUD	F Name:	
Date:	11-Mar-2003	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status: NORA **F Name:**
Date: 27-Feb-1990 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RECPT **F Name:**
Date: 19-Apr-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 07-May-1987 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TSAUD **F Name:**
Date: 07-Mar-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TIER1A **F Name:**
Date: 19-Apr-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1A Classification (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TCTRNS **F Name:**
Date: 07-May-1987 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 01-Sep-1994 **OHM:** Oil
OFC Notification: 07-May-1987
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

<u>5</u>	2 of 4	WNW	0.13 / 694.02	209.63 / 16	PRECISION COATING CO INC 51 PARMENTER RD HUDSON MA 01749	RCRA SQG
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EPA Handler ID: MAD043399906
Gen Status Universe: Small Quantity Generator
Contact Name: RICHARD BRODEUR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Address: 51 PARMENTER RD , , HUDSON , MA, 01749-0000 , US
Contact Phone No and Ext: 508-562-7561 212
Contact Email: RBRODEUR@PRECISIONCOATING.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20160823

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 313(2b,3b)
Violation Short Description: Generators - Manifest
Violation Type: 262.B
Violation Determined Date: 20031003
Scheduled Compliance Date: 20040721
Return to Compliance: O
Actual Return to Compl: 20050823
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20040721
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2750
Paid Amount: 2750

Violation Details

Citation: SR - 205(19)
Violation Short Description: Listing - General
Violation Type: 261.A
Violation Determined Date: 20030801
Scheduled Compliance Date: 20040721
Return to Compliance: O
Actual Return to Compl: 20050823
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20040721
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2750
Paid Amount: 2750

Violation Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Citation: SR - 303(3b)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20030801
Scheduled Compliance Date: 20040721
Return to Compliance: D
Actual Return to Compl: 20040330
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20040721
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2750
Paid Amount: 2750

Violation Details

Citation: SR - 341(4,5)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20030801
Scheduled Compliance Date: 20040721
Return to Compliance: O
Actual Return to Compl: 20050823
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20040721
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2750
Paid Amount: 2750

Evaluation Details

Evaluation Start Date: 20171215
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20140731
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20040722
Evaluation Type Description: NOT A SIGNIFICANT NON-COMPLIER
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Evaluation Start Date:		20031003				
Evaluation Type Description:		SIGNIFICANT NON-COMPLIER				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20040330				
Evaluation Agency:		State				
Evaluation Start Date:		20030801				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - Manifest				
Return to Compliance Date:		20050823				
Evaluation Agency:		State				
Evaluation Start Date:		20030801				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Listing - General				
Return to Compliance Date:		20050823				
Evaluation Agency:		State				
Evaluation Start Date:		20030801				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - Pre-transport				
Return to Compliance Date:		20050823				
Evaluation Agency:		State				
Evaluation Start Date:		20030801				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20040330				
Evaluation Agency:		State				
Evaluation Start Date:		19940421				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19870305
Handler Name:	PRECISION COATING CO INC
Federal Waste Generator Code:	3
Generator Code Description:	Very Small Quantity Generator
Source Type:	Notification

Waste Code Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:		D001				
Waste Code Description:		IGNITABLE WASTE				
<u>Hazardous Waste Handler Details</u>						
Sequence No:		2				
Receive Date:		20111014				
Handler Name:		PRECISION COATING CO INC				
Federal Waste Generator Code:		2				
Generator Code Description:		Small Quantity Generator				
Source Type:		Notification				
<u>Waste Code Details</u>						
Hazardous Waste Code:		D001				
Waste Code Description:		IGNITABLE WASTE				
Hazardous Waste Code:		D002				
Waste Code Description:		CORROSIVE WASTE				
Hazardous Waste Code:		D007				
Waste Code Description:		CHROMIUM				
Hazardous Waste Code:		D035				
Waste Code Description:		METHYL ETHYL KETONE				
Hazardous Waste Code:		F003				
Waste Code Description:		THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.				
Hazardous Waste Code:		F005				
Waste Code Description:		THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.				
Hazardous Waste Code:		MA01				
Waste Code Description:		WASTE OIL				
Hazardous Waste Code:		U123				
Waste Code Description:		FORMIC ACID (C,T)				
<u>Hazardous Waste Handler Details</u>						
Sequence No:		3				
Receive Date:		20160823				
Handler Name:		PRECISION COATING CO INC				
Federal Waste Generator Code:		2				
Generator Code Description:		Small Quantity Generator				
Source Type:		Notification				
<u>Waste Code Details</u>						
Hazardous Waste Code:		D001				
Waste Code Description:		IGNITABLE WASTE				
Hazardous Waste Code:		D007				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:		CHROMIUM				
Hazardous Waste Code:		D035				
Waste Code Description:		METHYL ETHYL KETONE				
Hazardous Waste Code:		F003				
Waste Code Description:		THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.				
Hazardous Waste Code:		MA01				
Waste Code Description:		WASTE OIL				
Hazardous Waste Code:		MA95				
Waste Code Description:		UNIVERSAL WASTE				

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	BOYD COATINGS RESEARCH CO INC	Street 2:	
Date Became Current:	19650301	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	DYLAN LP	Street 2:	
Date Became Current:	20000101	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	CORPORATION-BOYD COATINGS	Street 2:	
Date Became Current:	20041016	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	DONALD GARCIA	Street 2:	
Date Became Current:	20000101	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	DYLAN LP	Street 2:	
Date Became Current:	20050101	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	51 PARMENTER RD
Name:	PRECISION COATING CO INC	Street 2:	
Date Became Current:	20160101	City:	HUDSON
Date Ended Current:		State:	MA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phone:				Country:	US	
Source Type:	Notification			Zip Code:	01749-0000	

Historical Handler Details

Receive Dt: 20111014
 Generator Code Description: Small Quantity Generator
 Handler Name: PRECISION COATING CO INC

Receive Dt: 19870305
 Generator Code Description: Very Small Quantity Generator
 Handler Name: PRECISION COATING CO INC

<u>5</u>	3 of 4	WNW	0.13 / 694.02	209.63 / 16	FMR BOYD COATINGS RESEARCH CO 51 PARMENTER ROAD HUDSON MA	RELEASE
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RTN:	2-0020439	Phase:	PHASE II
Compliance Date:	1/31/2019	RAO Class:	
Compliance Status:	TIER1	Chemical Type:	INDUSTRIAL
Compl Status Desc:	Tier 1 Classification	Location Type:	
Notification Date:	1/24/2018	Site Name (BWSC):	FMR BOYD COATINGS RESEARCH CO
Source:	UNKNOWN	Address (BWSC):	51 PARMENTER ROAD
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	FMR BOYD COATINGS RESEARCH CO	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	51 PARMENTER ROAD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020439		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020439		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	RFI	F Name:	
Date:	30-Jul-2019	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			
Status:	APWRIT	F Name:	
Date:	16-Aug-2019	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Written Approval of Plan		
RAO Class:			
RAO Class Desc:			
Status:	CSRCVD	F Name:	
Date:	31-Jan-2019	L Name:	
Action:	PHASE1		
Action Description:	Phase 1		
Status Description:	Completion Statement Received		
RAO Class:			
RAO Class Desc:			
Status:	FOLOFF	F Name:	
Date:	30-May-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	03-Jun-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	05-Jun-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	20-Feb-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	13-May-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	16-Aug-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	11-Dec-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:	TIER1				F Name:	
Date:	31-Jan-2019				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1 Classification	
RAO Class:						
RAO Class Desc:						
Status:	NOIM				F Name:	
Date:	19-Jul-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RFI				F Name:	
Date:	18-Aug-2017				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APWRIT			F Name:		
Date:	24-Feb-2020			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Approval of Plan					
RAO Class:						
RAO Class Desc:						
Status:	DNWRIT			F Name:		
Date:	08-Feb-2019			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Denial of Plan or Release Retraction					
RAO Class:						
RAO Class Desc:						
Status:	NOAPP			F Name:		
Date:	30-Apr-2018			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	No IRA Approved at Notification					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD			F Name:		
Date:	03-Dec-2018			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO			F Name:		
Date:	14-Aug-2019			L Name:		
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN			F Name:		
Date:	19-Feb-2020			L Name:		
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:						
RAO Class Desc:						
Status:	FLDRUN			F Name:		
Date:	03-Mar-2020			L Name:		
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF			F Name:		
Date:	07-Jun-2019			L Name:		
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		FOLOFF			F Name:	
Date:		25-Jul-2018			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		LEGNOT			F Name:	
Date:		20-Feb-2019			L Name:	
Action:		TCLASS				
Action Description:			Tier Classification			
Status Description:			Legal Notice Published			
RAO Class:						
RAO Class Desc:						
Status:		RFI			F Name:	
Date:		22-Feb-2019			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:		PLANWR			F Name:	
Date:		11-May-2018			L Name:	
Action:		IRA				
Action Description:			Immediate Response Action			
Status Description:			Written Plan Received			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		30-Jul-2019			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		05-Sep-2019			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up or Other Field Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		29-Jan-2020			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		18-Apr-2018			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		04-Jun-2018			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	06-Jun-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	11-Jun-2018				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	31-Jan-2019				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	14-Feb-2020				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	28-May-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	19-Jul-2018				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	13-Dec-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	14-Feb-2019				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	06-Aug-2019 RLFA					L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 31-May-2018 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 17-Oct-2018 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 02-May-2018 RNFE					F Name: L Name:
		Release Notification Transmittal, Notice, or Notification Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RFI 14-Jun-2019 C&E					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PLANMD 18-Jan-2019 IRA					F Name: L Name:
		Immediate Response Action Modified Revised or Updated Plan Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 28-Aug-2018 IRA					F Name: L Name:
		Immediate Response Action Status or Interim Report Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 25-Jan-2019 IRA					F Name: L Name:
		Immediate Response Action Level I - Technical Screen Audit				
Status: Date: Action: Action Description: Status Description: RAO Class:	ISSUED 24-Jan-2018 NOR					F Name: L Name:
		Notice of Responsibility Correspondence Issued				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	FLDD1A				F Name:	
Date:	11-Apr-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Initial Compliance Field Response - Announced	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	02-Aug-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	01-Jul-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:	REVRCD				F Name:	
Date:	02-Mar-2020				L Name:	
Action:	RNFE					
Action Description:					Release Notification	
Status Description:					Revised Statement or Transmittal Received	
RAO Class:						
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	30-Apr-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RFI				F Name:	
Date:	08-May-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APWRIT				F Name:	
Date:	12-Jul-2019				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Written Approval of Plan	
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	30-Jun-2018				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Modified Revised or Updated Plan Received	
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	13-Mar-2020				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:			Immediate Response Action			
Status Description:			RMR Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	22-May-2018				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Level I - Technical Screen Audit			
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	05-Sep-2018				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Level I - Technical Screen Audit			
RAO Class:						
RAO Class Desc:						
Status:	SOW				F Name:	
Date:	29-Jul-2019				L Name:	
Action:	PHASII					
Action Description:			Phase 2			
Status Description:			Scope of Work Received			
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	28-Aug-2019				L Name:	
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	12-Oct-2018				L Name:	
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:	NORA				F Name:	
Date:	03-Jul-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APWRIT				F Name:	
Date:	24-May-2018				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Written Approval of Plan			
RAO Class:						
RAO Class Desc:						
Status:	NOAPP				F Name:	
Date:	24-Jan-2018				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			No IRA Approved at Notification			
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	STRCVD				F Name:	
Date:	18-Jan-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	13-Mar-2020				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	05-Feb-2020				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	17-Sep-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	27-Sep-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	23-Feb-2018				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:						
RAO Class Desc:						
Status:	REQACC				F Name:	
Date:	08-Oct-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	21-Jun-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	13-Dec-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:

RAO Class Desc:

Status: REPORT **F Name:**
Date: 24-Jan-2018 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 30-Apr-2018 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 21-Aug-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 06-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 17-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 05-Oct-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: TIER1 **Phase:** PHASE II
Current St Desc: Tier 1 Classification **RAO Class:**
Current Date: 31-Jan-2019 **OHM:**
OFC Notification: 24-Jan-2018
Phase Desc: Comprehensive Site Assessment
RAO Class Desc:
Other Rela:

5	4 of 4	WNW	0.13 / 694.02	209.63 / 16	FMR BOYD COATINGS RESEARCH CO 51 PARMENTER ROAD HUDSON MA	OIL & HAZ MAT
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RTN:		2-0020439				
Status:		TIERI				
Region - Office Location:		Central Region - Worcester				
Site Info:		https://eeaonline.eea.state.ma.us/portal#!/search/wastesite/results?RTN=2-0020439				
Data Source:		MassDEP Tier Classified Oil and/or Hazardous Material Sites				

Location Documentation Table

Primary Source Material Code:	MS_SITE
Prim Source Mat Code Desc:	Detailed Site plan or map
Secondary Source Mat Code:	AP_DOQ
Sec Source Mat Code Desc:	MassGIS 1:5,000 digital orthophotography
Tertiary Source Mat Code:	
Tertiary Source Mat Code Desc:	
Location Type Code:	CB
Location Type Desc:	Center of a building footprint positively associated with the facility/site
Location Method Code:	MAP
Location Method Desc:	Interpolation - Map
Location Accuracy Est Code:	100
Location Accuracy Est Desc:	Estimated horizontal accuracy is +/-16 - +/-100 feet
Location Base Map Code:	DOQ
Location Base Map Desc:	Digital orthophoto base map (DOQ)

<u>6</u>	1 of 1	N	0.82 / 4,341.24	199.63 / 6	MA DFS FIREFIGHTING ACADEMY 664 SUDBURY RD STOW MA	RELEASE
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RTN:	2-0021045	Phase:	
Compliance Date:	10/24/2019	RAO Class:	
Compliance Status:	UNCLASSIFIED	Chemical Type:	
Compl Status Desc:	Unclassified	Location Type:	STATE
Notification Date:	10/24/2019	Site Name (BWSC):	MA DFS FIREFIGHTING ACADEMY
Source:	SRM CONDIT	Address (BWSC):	664 SUDBURY RD
Reporting Category:	72 HR	Town (BWSC):	STOW
Site (EEA Data):	MA DFS FIREFIGHTING ACADEMY	Zip Code (BWSC):	
Rel Add(EEA Data):	664 SUDBURY RD	OFC Town (BWSC):	STOW
Town (EEA Data):	STOW		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0021045		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0021045		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	APWRIT	F Name:	
Date:	10-Jan-2020	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Written Approval of Plan		
RAO Class:			
RAO Class Desc:			
Status:	FOLOFF	F Name:	
Date:	18-Dec-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:			
RAO Class Desc:			
Status:	TSAUD	F Name:	
Date:	24-Dec-2019	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	26-Dec-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	23-Sep-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	02-Oct-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	23-Dec-2019				L Name:	
Action:	RNFE					
Action Description:	Release Notification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	28-Feb-2020				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	20-Nov-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	25-Oct-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	NOAPP				F Name:	
Date:	16-Sep-2019				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	No IRA Approved at Notification					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	18-Sep-2019 RLFA					L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 10-Jan-2020 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 05-Nov-2019 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PLANWR 23-Dec-2019 IRA					F Name: L Name:
		Immediate Response Action Written Plan Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 16-Sep-2019 REL					F Name: L Name:
		Release Disposition Reportable Release under MGL 21E				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FLDDO 17-Sep-2019 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLFLD 16-Sep-2019 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up or Other Field Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 03-Mar-2020 IRA					F Name: L Name:
		Immediate Response Action Level I - Technical Screen Audit				
Status: Date: Action: Action Description: Status Description: RAO Class:	FLDDO 19-Sep-2019 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: FOLFLD **F Name:**
Date: 29-Aug-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Status: PLANMD **F Name:**
Date: 28-Feb-2020 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Modified Revised or Updated Plan Received
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 24-Oct-2019 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 21-Jan-2020 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: UNCLSS **Phase:**
Current St Desc: Unclassified **RAO Class:**
Current Date: 24-Oct-2019 **OHM:**
OFC Notification: 24-Oct-2019
Phase Desc:
RAO Class Desc:
Other Rela:

7	1 of 2	WNW	0.09 / 462.02	207.98 / 14	LINCOLN TOOL & MACHINE CORP 43 PARMENTER RD HUDSON MA 01749	GEN
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EPA ID No: MAR000545384
2nd Name:
Phone: 978-567-9993

7	2 of 2	WNW	0.09 / 462.02	207.98 / 14	LINCOLN TOOL & MACHINE CORP. 43 PARMENTER RD HUDSON MA 01749	RCRA CESQG
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EPA Handler ID: MAR000545384
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: CYNTHIA J HOUSTON
Contact Address: 43 , PARMENTER ROAD , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 978-567-9993
Contact Email: CINDY@LINCOLNTOOL.COM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20190118

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated May, 2020.

Evaluation Details

Evaluation Start Date: 20190103
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190118
Handler Name: LINCOLN TOOL & MACHINE CORP.
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No: 43
Type: Private	Street 1: PARMENTER ROAD
Name: SCOTT J FERRECCHIA	Street 2: PO BOX 443
Date Became Current: 20180627	City: HUDSON
Date Ended Current:	State: MA
Phone: 978-567-9993	Country: US
Source Type: Notification	Zip Code: 01749
Owner/Operator Ind: Current Owner	Street No: 43

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Type:	Private				Street 1:	PARMENTER ROAD
Name:	SCOTT J. FERRECCHIA				Street 2:	PO BOX 443
Date Became Current:	20180627				City:	HUDSON
Date Ended Current:					State:	MA
Phone:	978-567-9993				Country:	US
Source Type:	Notification				Zip Code:	01749
Owner/Operator Ind:	Current Owner				Street No:	43
Type:	Private				Street 1:	PARMENTER ROAD
Name:	LISA M FERRECCHIA				Street 2:	PO BOX 443
Date Became Current:	20180627				City:	HUDSON
Date Ended Current:					State:	MA
Phone:	978-567-9993				Country:	US
Source Type:	Notification				Zip Code:	01749

8 1 of 1 NNW 0.75 / 3,984.24 196.06 / 2 STATE FIRE ACADEMY STOW 1 STATE ROAD STOW MA RELEASE

RTN: 2-0019241 Phase:
 Compliance Date: 8/19/2014 RAO Class: PN
 Compliance Status: PSNC Chemical Type: Oil
 Compl Status Desc: Permanent Solution with No Conditions Location Type: STATE
 Notification Date: 6/30/2014 Site Name (BWSC): STATE FIRE ACADEMY STOW
 Source: FUEL TANK Address (BWSC): 1 STATE ROAD
 Reporting Category: TWO HR Town (BWSC): STOW
 Site (EEA Data): STATE FIRE ACADEMY STOW Zip Code (BWSC): STOW
 Rel Add(EEA Data): 1 STATE ROAD OFC Town (BWSC): STOW
 Town (EEA Data): STOW
 Phase Desc:
 RAO Class Desc: Permanent Solution with No Conditions
 Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0019241>
 Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0019241>
 Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL FUEL
 Amount: 10
 Units: GAL

Action Information (BWSC)

Status: REPORT F Name:
 Date: 30-Jun-2014 L Name:
 Action: REL
 Action Description: Release Disposition
 Status Description: Reportable Release under MGL 21E
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Status: FOLOFF F Name:
 Date: 02-Jul-2014 L Name:
 Action: RLFA
 Action Description: Site Visit or Office Follow-up
 Status Description: Follow-up Office Response
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD F Name:
 Date: 19-Aug-2014 L Name:
 Action: RAO
 Action Description: Response Action Outcome -RAO
 Status Description: Permanent Solution with No Conditions
 RAO Class: PN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: Permanent Solution with No Conditions

Status: ISSUED **F Name:**
Date: 09-Jul-2014 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: RECPT **F Name:**
Date: 15-Aug-2014 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: APORAL **F Name:**
Date: 30-Jun-2014 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current St Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 19-Aug-2014 **OHM:** Oil
OFC Notification: 30-Jun-2014
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

9	1 of 1	WNW	0.04 / 207.98	208.00 / 14	SILVER KING BROADCASTING OF MA 71 PARMENTER RD HUDSON MA 01749	UST
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Facility ID: 19417 **Address (Map):**
Owner ID: 4511 **City (Map):**
Facility Status: CLOSED **Facility Contact:**
Facility Name: SILVER KING BROADCASTING OF MA **Facility Phone:**
Fac Add 1: 71 PARMENTER RD **Facility Lat:** 42.38402
Facility City: HUDSON **Facility Long:** -71.49482
Fac Name (Map):
Facility Type:

Facility Information Details

Con Add 1: **Con Phone:**
Con Add 2: **Con Email:**
Con City: **Update Date:** 30-Mar-2009
Con State: **Update By:**
Con Zip:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status: CLOSED **Owner Name:** HSN BROADCASTING
Last Inspection Dt: **Owner Contact Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Next Insp Due Date:	Operator Name:	HSN BROADCASTING
Last Cert Compl Dt:	Oper Contact Name:	
Next Cert Compl Due:		

Owner Information

Owner Name:	HSN BROADCASTING	Contact Name:	
Owner Add 1:	71 PARMENTER RD	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	HUDSON	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01749	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	
Business:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	14-Dec-1985	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jan-1990	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	2000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

10	1 of 5	E	0.06 / 323.49	194.39 / 1	SUDBURY ROD AND GUN 33 BULKLEY ROAD SUDBURY MA 017762640	CERCLIS
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Site ID:	0103316	RNPL Status Code:	N
Site EPA ID:	MAN000103316	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MIDDLESEX	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	25017	USGS Hydro Unit No.:	
Region Code:	01	Site Cong. Dist. Code:	05
Site SMSA No.:		ROT Desc:	
Site Prim. Latitude:	+71.451688	FR NPL Update No.:	
Site Prim. Longitude:	-042.373710	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	2/18/2011 00:00:00
RAT Short Name:	ARCH SITE	AGT Order No.:	1500

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAT Name:	ARCHIVE SITE				SH OU:	
RAT Hist. Only Flag:					SH Code:	
RAT NSI Indicator:	B				SH Seq:	
RAT Level:	1				SH Start Date:	
RAT DEF OU:	00				SH Complete Date:	
RFBS Code:					SH Lead:	
SPA Code:	13					
RAT Def:	The decision is made that no further activity is planned at the site.					
Site Desc:						
Site Alias:						

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	5/17/2004 00:00:00
RAT Code:	AR	Act Complete Date:	
RAT Short Name:	ADMM REC	AGT Order No.:	580
RAT Name:	ADMINISTRATIVE RECORDS	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	7/3/2003 00:00:00
RAT Code:	RS	Act Complete Date:	11/26/2003 00:00:00
RAT Short Name:	RV ASSESS	AGT Order No.:	30
RAT Name:	REMOVAL ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		
RAT Def:	Collecting site characteristics to determine whether or not a removal must be performed.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	4/28/2004 00:00:00
RAT Code:	RV	Act Complete Date:	5/17/2004 00:00:00
RAT Short Name:	RMVL	AGT Order No.:	70
RAT Name:	REMOVAL	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		
RAT Def:	Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site Desc:
Site Alias:

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			
RAT Def:			
Site Desc:	No description available		
Site Alias:	No alias data available		

10	2 of 5	E	0.06 / 323.49	194.39 / 1	SUDBURY ROD AND GUN 33 BULKLEY ROAD SUDBURY MA 17762640	CERCLIS NFRAP
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Site ID:	103316	Site FIPS Code:	25017
Site EPA ID:	MAN000103316	Region Code:	1
Site Parent ID:		Site Cong. Dist. Code:	5
Site County Name:	MIDDLESEX	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	4/28/2004
Act Code ID:	1	Act Complete Date:	5/17/2004
RAT Code:	RV	AGT Order No.:	70
RAT Short Name:	RMVL	SH OU:	
RAT Name:	REMOVAL	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	V	SH Qual:	
SPA Code:	08	RAQ Act. Qual Short:	Cleaned Up
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).		

RNON NPL Status Desc: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	2/18/2011
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SPA Code:	13				RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House				RNPL Status Code:	N
RAT Def:	The decision is made that no further activity is planned at the site.					
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)					

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	7/3/2003
Act Code ID:	1	Act Complete Date:	11/26/2003
RAT Code:	RS	AGT Order No.:	30
RAT Short Name:	RV ASSESS	SH OU:	
RAT Name:	REMOVAL ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	V	SH Qual:	
SPA Code:	08	RAQ Act. Qual Short:	
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Collecting site characteristics to determine whether or not a removal must be performed.		
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	5/17/2004
Act Code ID:	1	Act Complete Date:	
RAT Code:	AR	AGT Order No.:	580
RAT Short Name:	ADMM REC	SH OU:	
RAT Name:	ADMINISTRATIVE RECORDS	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Removal AR
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.		
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

[10](#) 3 of 5 *E* 0.06 / 323.49 194.39 / 1 **FORMER ROD & GUN CLUB
33 BULKLEY RD
SUDBURY MA** **RELEASE**

RTN:	3-0024573	Phase:	
Compliance Date:	3/30/2005	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	RESIDENTIAL
Notification Date:	1/19/2005	Site Name (BWSC):	FORMER ROD & GUN CLUB
Source:	ACTIVITIES, GUN CLUB	Address (BWSC):	33 BULKLEY RD
Reporting Category:	120 DY	Town (BWSC):	SUDBURY
Site (EEA Data):	FORMER ROD & GUN CLUB	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	33 BULKLEY RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0024573		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0024573		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical:		LEAD				
Amount:		32000				
Units:		MG/KG				

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 19-Jan-2005 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 30-Mar-2005 **L Name:**
Action: RAO-D
Action Description: RAO - DEP Lead
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: IHEVAL **F Name:**
Date: 30-Mar-2005 **L Name:**
Action: IRA-D
Action Description: Immediate Response Action - DEP
Status Description: Imminent Hazard Evaluation Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 30-Mar-2005 **OHM:** Hazardous Material
OFC Notification: 19-Jan-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

10	4 of 5	E	0.06 / 323.49	194.39 / 1	SUDBURY ROD AND GUN 33 BULKLEY ROAD SUDBURY MA 01776-2640	SEMS ARCHIVE
Site ID:	0103316	FIPS Code:	25017			
EPA ID:	MAN000103316	Cong District:	05			
Superfund Alt Agmt:	No	Region:	01			
Federal Facility:	No	County:	MIDDLESEX			
FF Docket:	N					
NPL:	Not on the NPL					
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)					

Action Information

Operable Units: 00 **Start Actual:** 07/02/2003
Action Code: RS **Finish Actual:** 11/25/2003
Action Name: RV ASSESS **Qual:**
SEQ: 1 **Curr Action Lead:** EPA Perf
Operable Units: 00 **Start Actual:** 05/16/2004

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Code:	AR				Finish Actual:	
Action Name:	ADMIN REC				Qual:	V
SEQ:	1				Curr Action Lead:	EPA Perf
Operable Units:	00				Start Actual:	
Action Code:	VS				Finish Actual:	02/17/2011
Action Name:	ARCH SITE				Qual:	
SEQ:	1				Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00				Start Actual:	04/27/2004
Action Code:	RV				Finish Actual:	05/16/2004
Action Name:	RMVL				Qual:	C
SEQ:	1				Curr Action Lead:	EPA Perf

10 5 of 5 E 0.06 / 323.49 194.39 / 1 FORMER ROD & GUN CLUB
33 BULKLEY RD SPILLS
SUDBURY MA 01776-0000

RTN: 3-0024573
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 3/30/2005
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: RESIDENTIAL
Category: 120 DY
Initial Status Date: 1/19/2006
Notification Date: 1/19/2005
Source: GUN CLUB,ACTIVITIES
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0024573
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: REL
Status: REPORT
RAO Class: A1
Date: 1/19/2005
Status Description: Reportable Release under MGL 21E
Action: IRA-D
Status: IHEVAL
RAO Class: A1
Date: 3/30/2005
Status Description: Imminent Hazard Evaluation Received
Action: RAO-D
Status: RAORCD
RAO Class: A1
Date: 3/30/2005
Status Description: RAO Statement Received (retired)

Chemical Information

Chemical: LEAD
Amount: 32000
Unit: MG/KG

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Information

Response Action Type: IRA-D Immediate Response Action - DEP Lead
Status: IHEVAL Imminent Hazard Evaluation Received
Submittal Date: 03/30/2005
RAO Class:
Activity Use Limitation:

Response Action Type: RAO-D RAO - DEP Lead
Status: RAORCD RAO Statement Received
Submittal Date: 03/30/2005
RAO Class: A1
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/19/2005
RAO Class:
Activity Use Limitation:

RAO Information

Class: A1
Method: 1
GW Category:
Soil Category: 1

Location Information

Location: RESIDENTIAL

Source Information

Source: ACTIVITIES
Source: GUN CLUB

11	1 of 8	NW	0.35 / 1,834.46	200.93 / 7	CONTINENTAL CITGO 706 MAIN ST HUDSON MA	LUST
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RTN: 2-0015576	Phase: PHASE V
Compliance Status: REMOPS	Location Type(s): COMMERCIAL
Compl Status Desc: Remedy Operation Status	Site Name (BWSC): CONTINENTAL CITGO
Compliance Date: 6/1/2010	Address (BWSC): 706 MAIN ST
Notification Date: 1/25/2005	Town (BWSC): HUDSON
RAO Class:	Zip Code (BWSC): 01749-0000
Chemical Type: Oil and Hazardous Material	OFC Town (BWSC): HUDSON
Reporting Category: 72 HR	Source(s): UST
Site Name (EEA Data Portal): CONTINENTAL CITGO	
Release Add (EEA Data Portal): 706 MAIN ST	
City/Town (EEA Data Portal): HUDSON	
Phase Desc: Operation, Maintenance and/or Monitoring	
RAO Class Desc:	
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015576	
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015576	
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)	

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Prim ID:	2-0015576			Category:	72 HR	
Current Status:	REMOPS			Phase:	PHASE V	
Current Status Desc:	Remedy Operation Status			RAO Class:		
Current Date:	01-Jun-2010			OHM:	Oil and Hazardous Material	
OFC Notification:	25-Jan-2005					
Phase Desc:	Operation, Maintenance and/or Monitoring					
RAO Class Desc:						
Other Rela:						

Chemical Information

Chemical:	NAPHTHALENE
Amount:	12
Units:	MG/KG
Chemical:	C5-C8 ALIPHATICS
Amount:	230000
Units:	UG/L
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Amount:	370
Units:	MG/KG
Chemical:	C5-C8 ALIPHATICS
Amount:	150
Units:	MG/KG

Action Information

Date:	11-Feb-2008	First Name:	
Action:	RLFA	Last Name:	
Action Description:	Site Visit or Office Follow-up		
Status:	FLDRAN		
Status Description:	Compliance Field Response - Announced		
RAO Class:			
RAO Class Desc:			
Date:	07-May-2008	First Name:	
Action:	RLFA	Last Name:	
Action Description:	Site Visit or Office Follow-up		
Status:	FOLOFF		
Status Description:	Follow-up Office Response		
RAO Class:			
RAO Class Desc:			
Date:	01-Dec-2011	First Name:	
Action:	AUDCOM	Last Name:	
Action Description:			
Status:	AFUCS		
Status Description:			
RAO Class:			
RAO Class Desc:			
Date:	26-Apr-2006	First Name:	
Action:	C&E	Last Name:	
Action Description:			
Status:	NORA		
Status Description:			
RAO Class:			
RAO Class Desc:			
Date:	25-May-2006	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	PLANMD		
Status Description:	Modified Revised or Updated Plan Received		
RAO Class:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Date:	05-Sep-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Date:	27-Jan-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Date:	27-Jan-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Date:	29-Dec-2010				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	11-Apr-2013				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	04-Mar-2008				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	SNAUDI					
Status Description:	Level II - Audit Inspection					
RAO Class:						
RAO Class Desc:						
Date:	02-Jun-2017				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	10-Dec-2014				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	30-Nov-2017				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		ROSSTR				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	01-Dec-2011				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		ROSSTR				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	09-Dec-2013				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		ROSSTR				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	29-Dec-2010				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		ROSSTR				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	18-Sep-2008				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:		LNKVIC				
Status Description:		RTN Linked to TCLASS Via IRA Completion Statement				
RAO Class:						
RAO Class Desc:						
Date:	02-Feb-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:		PUBCOM				
Status Description:		Public Comment Period Initiated on Submittal				
RAO Class:						
RAO Class Desc:						
Date:	22-Aug-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFNON				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	09-Jul-2008				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		NMDMRC				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:						
RAO Class Desc:						
Date:	01-Dec-2011				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	12-Mar-2008 PHASII Phase 2				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	07-May-2008 PHASIV Phase 4				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	25-Jan-2005 REL Release Disposition				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	25-Jan-2006 TCLASS Tier Classification				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	10-Jan-2008 IRA Immediate Response Action				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	03-Jun-2005 IRA Immediate Response Action				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	03-Dec-2015 PHASEV Phase 5				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	03-Jun-2014 PHASEV Phase 5				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	03-Dec-2015 PHASEV Phase 5				First Name: Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Date:	10-Jun-2015				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		AFUCS				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	04-May-2006				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		INTLET				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	09-Jul-2007				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Date:	10-Mar-2006				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:		SNAUDI				
Status Description:		Level II - Audit Inspection				
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2018				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	05-Jun-2019				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	10-Jun-2015				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	30-Nov-2009				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		WORKST				
Status Description:		Work Started				
RAO Class:						
RAO Class Desc:						
Date:	16-Mar-2006				First Name:	
Action:	RLFA				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Date:	23-Jul-2008				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	03-Dec-2012				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	29-May-2013				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	04-Dec-2016				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	04-Dec-2018				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	12-Mar-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUPLN					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	10-Mar-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:					First Name:	
Action:	BWS03				Last Name:	
Action Description:						
Status:		APPROV				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	23-Aug-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	09-Nov-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Date:	25-Jan-2006				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Date:	05-Jun-2019				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	21-Feb-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Date:	02-May-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Date:	27-Apr-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NOA					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	29-May-2013				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2016				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	30-Jun-2011				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	03-Dec-2012				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Date:	21-Feb-2012				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	TSAUD					
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Date:	20-Aug-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Date:	18-Mar-2005				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Date:	22-Aug-2011				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ACTAUD					
Status Description:		Level III - Comprehensive Audit				
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2012				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	04-Dec-2016				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2012				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2016				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	02-Jun-2017				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	18-May-2015				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	29-Mar-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	07-Apr-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	06-Oct-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						

RAO Class Desc:

Date: 10-Jun-2015 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: ROSSTR
Status Description: Remedy Operation Status Report Received
RAO Class:
RAO Class Desc:

Date: 29-Nov-2005 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Date: 01-Jun-2010 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: REMOPS
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class:
RAO Class Desc:

Date: 01-Jun-2010 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: RMRINI
Status Description: RMR Initial Report Received
RAO Class:
RAO Class Desc:

Date: 03-Jun-2014 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Date: 30-Jun-2011 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Date: 30-Nov-2017 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Date: 30-Nov-2009 **First Name:**
Action: PHASIV **Last Name:**
Action Description: Phase 4
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Date: 22-Apr-2008 **First Name:**
Action: PHASIV **Last Name:**
Action Description: Phase 4

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		PLANWR				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						
Date:	22-Dec-2005				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Date:	27-Dec-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	09-Dec-2013				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	16-May-2011				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:						
RAO Class Desc:						
Date:	17-Apr-2015				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Date:	30-Jan-2008				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Date:	25-Jan-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	ASSESS					
Status Description:	IRA Assessment Only					
RAO Class:						
RAO Class Desc:						
Date:	03-Jul-2007				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	28-Jul-2006 IRA Immediate Response Action TSAUD Level I - Technical Screen Audit				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	10-Dec-2014 PHASEV Phase 5 ROSSTR Remedy Operation Status Report Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	29-Jun-2006 AUDCOM AFUCS				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	15-Jul-2008 IRA Immediate Response Action CSRCVD Completion Statement Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	29-Nov-2005 IRA Immediate Response Action PLANMD Modified Revised or Updated Plan Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	08-Jan-2007 IRA Immediate Response Action STRCVD Status or Interim Report Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	01-Feb-2008 IRA Immediate Response Action TSAUD Level I - Technical Screen Audit				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	04-Dec-2018 PHASEV Phase 5 RMRINT RMR Interim Report Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description:	04-Dec-2019 PHASEV Phase 5 RMRINT RMR Interim Report Received				First Name: Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Date:	01-Jun-2018				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	26-Jan-2011				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	19-Mar-2008				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	04-Mar-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	04-Dec-2019				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Date:	03-Feb-2010				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	12-Mar-2008				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Date:	03-May-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Date:	25-Jan-2006				First Name:	
Action:	TCLASS				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Tier Classification
Status: TIER1C
Status Description: Tier 1C Classification (retired)
RAO Class:
RAO Class Desc:

11	2 of 8	NW	0.35 / 1,834.46	200.93 / 7	FORMER CITGO 706 MAIN ST HUDSON MA	LUST
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RTN: 2-0017095
Compliance Status: RTN CLOSED
Compl Status Desc: Release Tracking Number Closed
Compliance Date: 9/18/2008
Notification Date: 5/21/2008
RAO Class:
Chemical Type: Oil
Reporting Category: 72 HR
Site Name (EEA Data Portal): FORMER CITGO
Release Add (EEA Data Portal): 706 MAIN ST
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017095>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017095>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: RAO NR
Current Status Desc: RAO Not Required
Current Date: 18-Sep-2008
OFC Notification: 21-May-2008
Phase Desc:
RAO Class Desc:
Other Rela:

Category: 72 HR
Phase:
RAO Class:
OHM: Oil

Chemical Information

Chemical: DIESEL FUEL
Amount: 100
Units: PPMV

Chemical: GASOLINE
Amount: 100
Units: PPMV

Action Information

Date: 30-Jun-2008
Action: IRA
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 25-Sep-2008
Action: IRA
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:

First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Date:	02-Feb-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PUBCOM					
Status Description:	Public Comment Period Initiated on Submittal					
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUCS					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUPLN					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	27-Apr-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NOA					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	18-Sep-2008				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Date:	25-Jan-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1C					
Status Description:	Tier 1C Classification (retired)					
RAO Class:						
RAO Class Desc:						
Date:	12-Mar-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Date:	18-May-2015				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	22-Aug-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		NAFNON				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	04-Mar-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFNON				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	18-Sep-2008				First Name:	
Action:	RAONR				Last Name:	
Action Description:	RAO Not Required					
Status:		RTCLSS				
Status Description:		Linked to a Tier Classified Site				
RAO Class:						
RAO Class Desc:						
Date:	18-Sep-2008				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Date:	13-Jun-2008				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		PLANWR				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						
Date:	13-Jun-2008				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Date:	01-Dec-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		AFUCS				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	21-May-2008				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:		REPORT				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Date:	25-Jan-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:		RECPT				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	10-Mar-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFNON				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	10-Jun-2015				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		AFUCS				
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	21-May-2008				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	ASSESS					
Status Description:	IRA Assessment Only					
RAO Class:						
RAO Class Desc:						

[11](#) 3 of 8 **NW** 0.35 / 1,834.46 200.93 / 7 **LAKE BOON SERVICE STATION** **RELEASE**
706 MAIN ST
HUDSON MA

RTN: 2-0000261 **Phase:**
Compliance Date: 9/2/1993 **RAO Class:**
Compliance Status: DEPND5 **Chemical Type:**
Compl Status Desc: DEP Not a Disposal Site **Location Type:**
Notification Date: 7/15/1987 **Site Name (BWSC):** LAKE BOON SERVICE STATION
Source: **Address (BWSC):** 706 MAIN ST
Reporting Category: NONE **Town (BWSC):** HUDSON
Site (EEA Data): LAKE BOON SERVICE STATION **Zip Code (BWSC):** 01749
Rel Add(EEA Data): 706 MAIN ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000261>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000261>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status: DEPND5 **F Name:**
Date: 02-Sep-1993 **L Name:**
Action: TREGS
Action Description:
Status Description: Not a Disposal Site - DEP
RAO Class:
RAO Class Desc:
Status: TCTRNS **F Name:**
Date: 15-Jul-1987 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	DEPNDS	Phase:	
Current St Desc:	DEP Not a Disposal Site	RAO Class:	
Current Date:	02-Sep-1993	OHM:	
OFC Notification:	15-Jul-1987		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

<u>11</u>	4 of 8	NW	0.35 / 1,834.46	200.93 / 7	CITGO STATION 706 MAIN ST HUDSON MA	RELEASE
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RTN:	2-0014026	Phase:	
Compliance Date:	10/10/2002	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	10/6/2001	Site Name (BWSC):	CITGO STATION
Source:	PIPE	Address (BWSC):	706 MAIN ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	CITGO STATION	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	706 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0014026		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0014026		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	GASOLINE
Amount:	14
Units:	GAL

Action Information (BWSC)

Status:	IHEVAL	F Name:	
Date:	10-Oct-2002	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Imminent Hazard Evaluation Received		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	06-Oct-2001	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	10-Oct-2002	L Name:	
Action:	RNF		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RAORCD				F Name:	
Date:	10-Oct-2002				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	06-Oct-2001				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	08-Nov-2001				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FEEREC				F Name:	
Date:	15-Oct-2002				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	06-Nov-2002				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	10-Oct-2002				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	10-Oct-2002				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: STRCVD **F Name:**
Date: 10-Oct-2002 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ALSENT **F Name:**
Date: 30-Aug-2002 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 10-Oct-2002 **OHM:** Oil
OFC Notification: 06-Oct-2001
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

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Site No: 2-0017095 **Initial Status Dt:** 5/21/2009
Source: UST **Official Notifi Dt:** 5/21/2008
Release Type: RTN CLOSED **Current Date:** 9/18/2008
Chemical Type: Oil **ROA Class:**
Category: 72 HR **Phase:**
ROA Class Desc:
Phase Desc:
Release Type Desc: Future response actions addressing the release associated with this Release Tracking Number (RTN) will be conducted as part of the response actions planned for the site under another "primary" RTN.
Status Desc: Release Tracking Number Closed
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0017095>
Location Type: COMMERCIAL

Chemicals Information

Chemical: DIESEL FUEL
Amount: 100
Units: PPMV

Chemical: GASOLINE
Amount: 100
Units: PPMV

Response Action

Response Action Type: RAONR RAO Not Required
Status: RTCLSS Linked to a Tier Classified Site
Submittal Date: 09/18/2008
RAO Class:
RAO Description:
Activity and Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Type: TCLASS Tier Classification
Status: LNKVIC RTN Linked to TCLASS Via IRA Completion Statement
Submittal Date: 09/18/2008
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 09/25/2008
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/21/2008
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 2974
LSP Name: CARLSON, GLENN A

Tier Classification Detail

Imminent Hazard: NO
Zone2: NO
Numerical Rank Scoresheet Totals:
Numerical Rank Scoresheet II: 185
Numerical Rank Scoresheet III: 108
Numerical Rank Scoresheet IV: 60
Numerical Rank Scoresheet V: 65
Numerical Rank Scoresheet VI: 0

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Site No: 2-0015576
Source: UST
Release Type: REMOPS
Chemical Type: Oil and Hazardous Material
Category: 72 HR
ROA Class Desc:
Phase Desc: Operation, Maintenance, and/or Monitoring. During Phase V, long-term treatment processes are implemented and monitored to track cleanup progress.
Release Type Desc: (Remedy Operation Status): A site where a remedial system which relies upon Active Operation and Maintenance is being operated for the purpose of achieving a Permanent Solution.
Status Desc: Remedy Operation Status
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0015576>
Location Type: COMMERCIAL

Chemicals Information

Chemical: C5-C8 ALIPHATICS
Amount: 150
Units: MG/KG

Chemical: C5-C8 ALIPHATICS
Amount: 230000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Units:		UG/L				
Chemical:		NAPHTHALENE				
Amount:		12				
Units:		MG/KG				
Chemical:		C9 THRU C10 AROMATIC HYDROCARBONS				
Amount:		370				
Units:		MG/KG				
<u>Response Action</u>						
Response Action Type:		PHASEV Phase 5				
Status:		ROSSTR Remedy Operation Status Report Received				
Submittal Date:		06/02/2017				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		PHASII Phase 2				
Status:		TSAUD Level I - Technical Screen Audit				
Submittal Date:		03/19/2008				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		PHASEI Phase 1				
Status:		SNAUDI Level II - Audit Inspection				
Submittal Date:		03/10/2006				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		TCLASS Tier Classification				
Status:		LNKVIC RTN Linked to TCLASS Via IRA Completion Statement				
Submittal Date:		09/18/2008				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		RNF Release Notification Form Received				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		03/18/2005				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		01/25/2005				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		IRA Immediate Response Action				
Status:		TSAUD Level I - Technical Screen Audit				
Submittal Date:		07/23/2008				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:		PHSIII Phase 3				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		03/12/2008				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Response Action Type:		PHASIV Phase 4				
Status:		TSAUD Level I - Technical Screen Audit				
Submittal Date:		02/03/2010				
RAO Class:						
RAO Description:						
Activity and Use Limitation:						

Licensed Site Professional

LSP No:	6105
LSP Name:	ANDRONICO, ANTHONY F
LSP No:	2974
LSP Name:	CARLSON, GLENN A

Tier Classification Detail

Imminent Hazard:	NO
Zone2:	NO
Numerical Rank Scoresheet	418
Totals:	
Numerical Rank Scoresheet II:	185
Numerical Rank Scoresheet III:	108
Numerical Rank Scoresheet IV:	60
Numerical Rank Scoresheet V:	65
Numerical Rank Scoresheet VI:	0

11	7 of 8	NW	0.35 / 1,834.46	200.93 / 7	CONTINENTAL CITGO 706 MAIN ST HUDSON MA	RELEASE
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RTN:	2-0015576	Phase:	PHASE V
Compliance Date:	6/1/2010	RAO Class:	
Compliance Status:	REMOPS	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Remedy Operation Status	Location Type:	COMMERCIAL
Notification Date:	1/25/2005	Site Name (BWSC):	CONTINENTAL CITGO
Source:	UST	Address (BWSC):	706 MAIN ST
Reporting Category:	72 HR	Town (BWSC):	HUDSON
Site (EEA Data):	CONTINENTAL CITGO	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	706 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015576		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015576		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	NAPHTHALENE
Amount:	12
Units:	MG/KG
Chemical:	C5-C8 ALIPHATICS
Amount:	230000
Units:	UG/L
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Amount:	370
Units:	MG/KG
Chemical:	C5-C8 ALIPHATICS
Amount:	150
Units:	MG/KG

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: NOA **F Name:**
Date: 27-Apr-2011 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: NORA **F Name:**
Date: 26-Apr-2006 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: PLANMD **F Name:**
Date: 05-Sep-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Modified Revised or Updated Plan Received
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 29-Jun-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 01-Feb-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 04-Dec-2016 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 04-Dec-2018 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: ROSSTR **F Name:**
Date: 01-Jun-2016 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	07-May-2008				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	12-Mar-2008				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	25-Jan-2005				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	FLDRUN				F Name:	
Date:	21-Feb-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	02-May-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	18-Sep-2008				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Status:	AFUCS				F Name:	
Date:	29-Jun-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	04-Mar-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:		NMDMRC			F Name:	
Date:		09-Jul-2008			L Name:	
Action:		C&E				
Action Description:						
Status Description:			Notice of Delay in Meeting RA Deadline Received			
RAO Class:						
RAO Class Desc:						
Status:		TSAUD			F Name:	
Date:		27-Dec-2005			L Name:	
Action:		IRA				
Action Description:			Immediate Response Action			
Status Description:			Level I - Technical Screen Audit			
RAO Class:						
RAO Class Desc:						
Status:		ALSENT			F Name:	
Date:		09-Nov-2005			L Name:	
Action:		NOR				
Action Description:			Notice of Responsibility			
Status Description:			Anniversary Letter Sent			
RAO Class:						
RAO Class Desc:						
Status:		ACTAUD			F Name:	
Date:		22-Aug-2011			L Name:	
Action:		PHASEV				
Action Description:			Phase 5			
Status Description:			Level III - Comprehensive Audit			
RAO Class:						
RAO Class Desc:						
Status:		RMRINT			F Name:	
Date:		30-Jun-2011			L Name:	
Action:		PHASEV				
Action Description:			Phase 5			
Status Description:			RMR Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:		RMRINT			F Name:	
Date:		01-Dec-2011			L Name:	
Action:		PHASEV				
Action Description:			Phase 5			
Status Description:			RMR Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:		ROSSTR			F Name:	
Date:		02-Jun-2017			L Name:	
Action:		PHASEV				
Action Description:			Phase 5			
Status Description:			Remedy Operation Status Report Received			
RAO Class:						
RAO Class Desc:						
Status:		ROSSTR			F Name:	
Date:		10-Jun-2015			L Name:	
Action:		PHASEV				
Action Description:			Phase 5			
Status Description:			Remedy Operation Status Report Received			
RAO Class:						
RAO Class Desc:						
Status:		ROSSTR			F Name:	
Date:		04-Dec-2019			L Name:	
Action:		PHASEV				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	26-Jan-2011				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	WORKST				F Name:	
Date:	30-Nov-2009				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Work Started				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	03-Feb-2010				L Name:	
Action:	PHASIV					
Action Description:		Phase 4				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	16-May-2011				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Announced				
RAO Class:						
RAO Class Desc:						
Status:	PUBCOM				F Name:	
Date:	02-Feb-2006				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Public Comment Period Initiated on Submittal				
RAO Class:						
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	04-May-2006				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	03-Jun-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	06-Oct-2006				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ISSUED				F Name:	
Date:	27-Jan-2005				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	25-Jan-2006				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	29-May-2013				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	03-Jun-2014				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	03-Dec-2012				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	29-May-2013				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	30-Jun-2011				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	30-Nov-2009				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	22-Apr-2008				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	FLDRUN				F Name:	
Date:	17-Apr-2015				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Status:	FLDRUN				F Name:	
Date:	03-May-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	25-Jan-2006				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	25-May-2006				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	29-Nov-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	SNAUDI				F Name:	
Date:	04-Mar-2008				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level II - Audit Inspection					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	29-Nov-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	09-Jul-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	28-Jul-2006				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	27-Jan-2005				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Anniversary Letter Sent				
RAO Class:						
RAO Class Desc:						
Status:	RMRINI				F Name:	
Date:	01-Jun-2010				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Initial Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	05-Jun-2019				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	04-Dec-2019				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	10-Dec-2014				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	01-Jun-2018				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	01-Dec-2011				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	04-Dec-2016				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	FOLOFF				F Name:	
Date:	07-May-2008				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	20-Aug-2006				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	12-Mar-2006				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:						
RAO Class Desc:						
Status:	AFUPLN				F Name:	
Date:	29-Jun-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ASSESS				F Name:	
Date:	25-Jan-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		IRA Assessment Only				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	08-Jan-2007				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	03-Jul-2007				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	REMOPS				F Name:	
Date:	01-Jun-2010				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status (ROS) Submittal Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	02-Jun-2017				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	03-Dec-2015				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	03-Dec-2015				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	10-Dec-2014				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	21-Feb-2012				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	12-Mar-2008				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	11-Feb-2008				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:		Compliance Field Response - Announced				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	22-Dec-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	AFUCS				F Name:	
Date:	10-Jun-2015				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	AFUCS				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	01-Dec-2011				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	18-May-2015				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	15-Jul-2008				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	SNAUDI				F Name:	
Date:	10-Mar-2006				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Level II - Audit Inspection					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	01-Jun-2018				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	09-Dec-2013				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	01-Jun-2012				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	03-Jun-2014				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	30-Nov-2017				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	29-Dec-2010				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	30-Jan-2008				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	16-Mar-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	18-Mar-2005				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	TIER1C				F Name:	
Date:	25-Jan-2006				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	10-Mar-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	22-Aug-2011				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	07-Apr-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	23-Jul-2008				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	23-Aug-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	10-Jun-2015				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	30-Nov-2017				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	29-Dec-2010				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		RMR Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	03-Dec-2012				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	04-Dec-2018				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	19-Mar-2008				L Name:	
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	29-Mar-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	STRCVD				F Name:	
Date:	10-Jan-2008				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	01-Jun-2012				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	01-Jun-2016				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	05-Jun-2019				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	09-Dec-2013				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	11-Apr-2013				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						

Release (BWSC) Detail

Prim ID: 2-0015576 **Category:** 72 HR
Current Status: REMOPS **Phase:** PHASE V
Current St Desc: Remedy Operation Status **RAO Class:**
Current Date: 01-Jun-2010 **OHM:** Oil and Hazardous Material
OFC Notification: 25-Jan-2005
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc:
Other Rela:

[11](#) 8 of 8 NW 0.35 / 1,834.46 200.93 / 7 FORMER CITGO 706 MAIN ST HUDSON MA **RELEASE**

RTN: 2-0017095 **Phase:**
Compliance Date: 9/18/2008 **RAO Class:**
Compliance Status: RTN CLOSED **Chemical Type:** Oil
Compl Status Desc: Release Tracking Number Closed **Location Type:** COMMERCIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Notification Date:	5/21/2008				Site Name (BWSC): FORMER CITGO	
Source:	UST				Address (BWSC): 706 MAIN ST	
Reporting Category:	72 HR				Town (BWSC): HUDSON	
Site (EEA Data):	FORMER CITGO				Zip Code (BWSC): 01749-0000	
Rel Add(EEA Data):	706 MAIN ST				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:						
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017095					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017095					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 100
Units: PPMV

Chemical: DIESEL FUEL
Amount: 100
Units: PPMV

Action Information (BWSC)

Status: AFUCS **F Name:**
Date: 29-Jun-2006 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 25-Sep-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: RECPT **F Name:**
Date: 25-Jan-2006 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 18-Sep-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: TIER1C **F Name:**
Date: 25-Jan-2006 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1C Classification (retired)
RAO Class:
RAO Class Desc:

Status: NAFNON **F Name:**
Date: 18-May-2015 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	REPORT			F Name:		
Date:	21-May-2008			L Name:		
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	NAFNON			F Name:		
Date:	04-Mar-2008			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NAFNON			F Name:		
Date:	22-Aug-2011			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ASSESS			F Name:		
Date:	21-May-2008			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	IRA Assessment Only					
RAO Class:						
RAO Class Desc:						
Status:	PUBCOM			F Name:		
Date:	02-Feb-2006			L Name:		
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Public Comment Period Initiated on Submittal					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR			F Name:		
Date:	13-Jun-2008			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC			F Name:		
Date:	18-Sep-2008			L Name:		
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Status:	AFUCS			F Name:		
Date:	01-Dec-2011			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						

Status: NOA
Date: 27-Apr-2011
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: TSAUD
Date: 30-Jun-2008
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: AFUCS
Date: 10-Jun-2015
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: AFUPLN
Date: 29-Jun-2006
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: NAFNON
Date: 10-Mar-2006
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: ISSUED
Date: 13-Jun-2008
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: PEREFF
Date: 12-Mar-2006
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RTCLSS
Date: 18-Sep-2008
Action: RAONR
Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Current Status: RAONR Current St Desc: RAO Not Required Current Date: 18-Sep-2008 OFC Notification: 21-May-2008 Phase Desc: RAO Class Desc: Other Rela:					Phase: RAO Class: OHM: Oil	

12	1 of 2	WNW	0.09 / 486.70	203.86 / 10	ANVER CORPORATION 36 PARMENTER RD HUDSON MA 01749	RCRA SQG
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EPA Handler ID: MAC300096161
Gen Status Universe: Small Quantity Generator
Contact Name: JOE THEBERGE
Contact Address: 36 PARMENTER RD , , HUDSON , MA, 01749-0000 , US
Contact Phone No and Ext: 978-763-9116 116
Contact Email: JTHEBERGE@ANVER.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20140715

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Listing - General
Violation Type: 261.A
Violation Determined Date: 20140529
Scheduled Compliance Date:
Return to Compliance: D
Actual Return to Compl: 20140715
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20140915
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20141015
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2432
Paid Amount: 2432

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20140529
Scheduled Compliance Date:
Return to Compliance: D
Actual Return to Compl: 20140816
Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20140915
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20141015
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 2432
Paid Amount: 2432

Evaluation Details

Evaluation Start Date: 20190103
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20140915
Evaluation Type Description: NOT A SIGNIFICANT NON-COMPLIER
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20140728
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Violation Short Description: Listing - General
Return to Compliance Date: 20140715
Evaluation Agency: State

Evaluation Start Date: 20140529
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20140816
Evaluation Agency: State

Evaluation Start Date: 20140529
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Listing - General
Return to Compliance Date: 20140715
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Receive Date:			20140715			
Handler Name:			ANVER CORPORATION			
Federal Waste Generator Code:			2			
Generator Code Description:			Small Quantity Generator			
Source Type:			Notification			
<u>Waste Code Details</u>						
Hazardous Waste Code:			D001			
Waste Code Description:			IGNITABLE WASTE			
Hazardous Waste Code:			D040			
Waste Code Description:			TRICHLOROETHYLENE			
Hazardous Waste Code:			F002			
Waste Code Description:			THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			F003			
Waste Code Description:			THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			F005			
Waste Code Description:			THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			MA01			
Waste Code Description:			WASTE OIL			
Hazardous Waste Code:			MA04			
Waste Code Description:			WASTE PAINT RELATED MATERIAL			
<u>Owner/Operator Details</u>						
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	36 PARMENTER RD
Name:	ANVER CORPORATION - FRANK VERNOOY				Street 2:	
Date Became Current:	19680501				City:	HUDSON
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01749-0000
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	36 PARMENTER RD
Name:	ANVER CORPORATION				Street 2:	
Date Became Current:	19950301				City:	HUDSON
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01749-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	2 of 2	WNW	0.09 / 486.70	203.86 / 10	ANVER CORPORATION 36 PARMENTER RD HUDSON MA 01749	GEN

EPA ID No: MAC300096161
2nd Name:
Phone: 978-763-9116

13	1 of 2	NW	0.54 / 2,837.61	207.56 / 14	GELPKE RESIDENCE 53 LAKESIDE AVE HUDSON MA	RELEASE
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RTN: 2-0015157
Compliance Date: 12/6/2005
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/5/2004
Source: AST
Reporting Category: TWO HR
Site (EEA Data): GELPKE RESIDENCE
Rel Add(EEA Data): 53 LAKESIDE AVE
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015157>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015157>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: FUEL OIL #2
Amount: 170
Units: GAL

Action Information (BWSC)

Status: NAFNON
Date: 03-Dec-2008
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: APORAL
Date: 11-Mar-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: STRCVD
Date: 27-Dec-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 27-Jul-2004
Action: IRA
Action Description: Immediate Response Action

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	ALSENT				F Name:	
Date:	04-Feb-2005				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	06-Dec-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REVRCD				F Name:	
Date:	02-Mar-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDRAN				F Name:	
Date:	17-May-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	10-Mar-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	05-May-2004				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	AFUCS				F Name:	
Date:	02-Mar-2009				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	27-Jun-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	01-Jul-2004				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	ISSUED				F Name:	
Date:	26-Mar-2004				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	CSRCVD				F Name:	
Date:	14-Mar-2005				L Name:	
Action:	PHASEI					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	REPORT				F Name:	
Date:	05-Mar-2004				L Name:	
Action:	REL					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	RECPT				F Name:	
Date:	14-Mar-2005				L Name:	
Action:	TCLASS					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	NOA				F Name:	
Date:	08-Oct-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	ASSESS				F Name:	
Date:	05-Mar-2004				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	CSRCVD				F Name:	
Date:	06-Dec-2005				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	FOLOFF				F Name:	
Date:	17-Mar-2004				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:	A2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	LNKVTC				F Name:	
Date:	14-Mar-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via Tier Classification Submittal					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PLANWR				F Name:	
Date:	05-May-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDISS				F Name:	
Date:	11-Mar-2004				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Field NOR Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	11-Feb-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	24-Mar-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	23-Mar-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDRAN				F Name:	
Date:	11-Mar-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	24-Mar-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	17-May-2004				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:		TSAUD			F Name:	
Date:		30-Jun-2005			L Name:	
Action:		IRA				
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:		ACTAUD			F Name:	
Date:		03-Dec-2008			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		Level III - Comprehensive Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:		TSAUD			F Name:	
Date:		09-Jan-2006			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:		FOLOFF			F Name:	
Date:		09-Mar-2004			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:		TIERII			F Name:	
Date:		14-Mar-2005			L Name:	
Action:		TCLASS				
Action Description:		Tier Classification				
Status Description:		Tier 2 Classification				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID: 2-0015157 **Category:** TWO HR
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 06-Dec-2005 **OHM:** Oil
OFC Notification: 05-Mar-2004
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

[13](#) 2 of 2 **NW** **0.54 / 2,837.61** **207.56 / 14** **GELPKE RESIDENCE** **RELEASE**
53 LAKESIDE AVE
HUDSON MA

RTN: 2-0015220 **Phase:**
Compliance Date: 3/14/2005 **RAO Class:**
Compliance Status: RTN CLOSED **Chemical Type:** Oil
Compl Status Desc: Release Tracking Number Closed **Location Type:** RESIDENTIAL
Notification Date: 4/26/2004 **Site Name (BWSC):** GELPKE RESIDENCE
Source: AST **Address (BWSC):** 53 LAKESIDE AVE
Reporting Category: 72 HR **Town (BWSC):** HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Site (EEA Data):	GELPKE RESIDENCE				Zip Code (BWSC): 01749-0000	
Rel Add(EEA Data):	53 LAKESIDE AVE				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:						
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015220					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015220					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 17
Units: INCH

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 04-May-2004 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: TIERII **F Name:**
Date: 14-Mar-2005 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class:
RAO Class Desc:

Status: NAFNON **F Name:**
Date: 03-Dec-2008 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: ASSESS **F Name:**
Date: 26-Apr-2004 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: IRA Assessment Only
RAO Class:
RAO Class Desc:

Status: RTCLSS **F Name:**
Date: 14-Mar-2005 **L Name:**
Action: RAONR
Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 03-May-2004 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	11-Jan-2005 IRA					L Name:
		Immediate Response Action Level I - Technical Screen Audit				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 01-Jul-2004 IRA					F Name: L Name:
		Immediate Response Action Status or Interim Report Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 26-Apr-2004 REL					F Name: L Name:
		Release Disposition Reportable Release under MGL 21E				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	LNKVTC 14-Mar-2005 TCLASS					F Name: L Name:
		Tier Classification RTN Linked to TCLASS Via Tier Classification Submittal				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	ALSENT 23-Feb-2005 NOR					F Name: L Name:
		Notice of Responsibility Anniversary Letter Sent				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	NOA 08-Oct-2008 AUDCOM					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 27-Dec-2004 IRA					F Name: L Name:
		Immediate Response Action Status or Interim Report Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PLANWR 05-May-2004 IRA					F Name: L Name:
		Immediate Response Action Written Plan Received				
Status: Date: Action: Action Description: Status Description: RAO Class:	REPORT 05-May-2004 RNF					F Name: L Name:
		Release Notification Form Received Reportable Release under MGL 21E				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: RECPT **F Name:**
Date: 14-Mar-2005 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: RAO Not Required **RAO Class:**
Current Date: 14-Mar-2005 **OHM:** Oil
OFC Notification: 26-Apr-2004
Phase Desc:
RAO Class Desc:
Other Rela:

14	1 of 2	NW	0.46 / 2,437.59	206.71 / 13	KLAUK RESIDENCE 40 LAKESIDE AVE HUDSON MA	LAST
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RTN: 2-0015407 **Phase:** PHASE II
Compliance Status: RAO **Location Type(s):** RESIDENTIAL
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** KLAUK RESIDENCE
Compliance Date: 6/23/2006 **Address (BWSC):** 40 LAKESIDE AVE
Notification Date: 9/23/2004 **Town (BWSC):** HUDSON
RAO Class: A2 **Zip Code (BWSC):** 01749-0000
Chemical Type: Oil **OFC Town (BWSC):** HUDSON
Reporting Category: 72 HR **Source(s):** AST
Site Name (EEA Data Portal): KLAUK RESIDENCE
Release Add (EEA Data Portal): 40 LAKESIDE AVE
City/Town (EEA Data Portal): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015407>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015407>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:** PHASE II
Current Status Desc: Response Action Outcome **RAO Class:** A2
Current Date: 23-Jun-2006 **OHM:** Oil
OFC Notification: 23-Sep-2004
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 300
Units: MG/KG

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 3100
Units: MG/KG

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Amount:		1400				
Units:		MG/KG				
Chemical:		C19 THRU C36 ALIPHATIC HYDROCARBONS				
Amount:		9600				
Units:		MG/KG				
Chemical:		C9 THRU C18 ALIPHATIC HYDROCARBONS				
Amount:		19000				
Units:		MG/KG				
Chemical:		C9 THRU C12 ALIPHATIC HYDROCARBONS				
Amount:		1800				
Units:		MG/KG				

Action Information

Date: 26-Nov-2004 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: PLANWR
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 02-Feb-2005 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 21-Mar-2005 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 30-Sep-2005 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 30-Sep-2004 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORMD
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 22-Feb-2006 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 03-Dec-2008 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:		ACTAUD				
Status Description:		Level III - Comprehensive Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	07-Mar-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		PLANMD				
Status Description:		Modified Revised or Updated Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	03-Dec-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFNON				
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	27-Jan-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		STRCVD				
Status Description:		Status or Interim Report Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	14-Oct-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NOA				
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	23-Sep-2004				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		APORAL				
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	26-Nov-2004				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		IHEVAL				
Status Description:		Imminent Hazard Evaluation Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Sep-2005				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	23-Sep-2004				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:		REPORT				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	21-Jan-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORMD					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	12-Jul-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	20-Jan-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Aug-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	07-Oct-2004				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	04-Oct-2005				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	19-Jul-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	30-Jan-2006				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	23-Jun-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	23-Jun-2006			First Name:		
Action:	RAO			Last Name:		
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	26-Nov-2004			First Name:		
Action:	RNF			Last Name:		
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Sep-2005			First Name:		
Action:	TCLASS			Last Name:		
Action Description:	Tier Classification					
Status:	TIERII					
Status Description:	Tier 2 Classification					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

14 2 of 2 **NW** **0.46 / 2,437.59** **206.71 / 13** **KLAUK RESIDENCE
40 LAKESIDE AVE
HUDSON MA** **RELEASE**

RTN: 2-0015407 **Phase:** PHASE II
Compliance Date: 6/23/2006 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** RESIDENTIAL
Notification Date: 9/23/2004 **Site Name (BWSC):** KLAUK RESIDENCE
Source: AST **Address (BWSC):** 40 LAKESIDE AVE
Reporting Category: 72 HR **Town (BWSC):** HUDSON
Site (EEA Data): KLAUK RESIDENCE **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 40 LAKESIDE AVE **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015407>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015407>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Amount: 1800
Units: MG/KG

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Amount: 1400
Units: MG/KG

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 300
Units: MG/KG

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 3100
Units: MG/KG

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Amount:		19000				
Units:		MG/KG				
Chemical:		C19 THRU C36 ALIPHATIC HYDROCARBONS				
Amount:		9600				
Units:		MG/KG				
<u>Action Information (BWSC)</u>						
Status:	IHEVAL				F Name:	
Date:	26-Nov-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ALSENT				F Name:	
Date:	09-Aug-2005				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	30-Sep-2005				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	NAFNON				F Name:	
Date:	03-Dec-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	20-Jan-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	30-Jan-2006				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	26-Nov-2004				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	12-Jul-2005				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Immediate Response Action	
Status Description:					Completion Statement Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	STRCVD				F Name:	
Date:	27-Jan-2005				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Status or Interim Report Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	ACTAUD				F Name:	
Date:	03-Dec-2008				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Level III - Comprehensive Audit	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	REPORT				F Name:	
Date:	23-Sep-2004				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Reportable Release under MGL 21E	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	TIERII				F Name:	
Date:	30-Sep-2005				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 2 Classification	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	PLANWR				F Name:	
Date:	26-Nov-2004				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Written Plan Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	TSAUD				F Name:	
Date:	02-Feb-2005				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	APORAL				F Name:	
Date:	23-Sep-2004				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Oral Approval of Plan or Action	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	APORMD				F Name:	
Date:	21-Jan-2005				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Oral Approval of a Modified Plan	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	APORMD				F Name:	
Date:	30-Sep-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	19-Jul-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	07-Oct-2004				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PLANWR				F Name:	
Date:	04-Oct-2005				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	23-Jun-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	23-Jun-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PLANMD				F Name:	
Date:	07-Mar-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	NOA				F Name:	
Date:	14-Oct-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	21-Mar-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	22-Feb-2006				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RECPT				F Name:	
Date:	30-Sep-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	PHASE II
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	23-Jun-2006	OHM:	Oil
OFC Notification:	23-Sep-2004		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

[15](#) 1 of 8 **WNW** 0.12 / 652.93 203.23 / 9 **JAMES GORIN REALTY TRUST** 577 MAIN ST HUDSON MA **RELEASE**

RTN:	2-0000204	Phase:	
Compliance Date:	6/3/1992	RAO Class:	
Compliance Status:	WCSPRM	Chemical Type:	Oil
Compl Status Desc:	Waiver Completion Statement	Location Type:	INDUSTRIAL
Notification Date:	1/15/1987	Site Name (BWSC):	JAMES GORIN REALTY TRUST
Source:	UNCONTAIN	Address (BWSC):	577 MAIN ST
Reporting Category:	NONE	Town (BWSC):	HUDSON
Site (EEA Data):	JAMES GORIN REALTY TRUST	Zip Code (BWSC):	01749
Rel Add(EEA Data):	577 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000204		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000204		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	VOCS
Amount:	
Units:	

Action Information (BWSC)

Status:	WCSPRM	F Name:	
Date:	03-Jun-1992	L Name:	
Action:	TREGS		
Action Description:			
Status Description:			
RAO Class:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: ISSUED **F Name:**
Date: 26-May-1987 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: WAVACC **F Name:**
Date: 26-Jun-1990 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: TCTRNS **F Name:**
Date: 15-Jan-1987 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

Status: WAVREC **F Name:**
Date: 02-Mar-1990 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: WAVSIG **F Name:**
Date: 05-Jun-1990 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: WCSSPRM **Phase:**
Current St Desc: Waiver Completion Statement **RAO Class:**
Current Date: 03-Jun-1992 **OHM:** Oil
OFC Notification: 15-Jan-1987
Phase Desc:
RAO Class Desc:
Other Rela:

15	2 of 8	WNW	0.12 / 652.93	203.23 / 9	ATLANTIC BUSINESS FORMS 577 MAIN ST HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID: MAD004461885
Gen Status Universe: No Report
Contact Name: MANION WILLIAM
Contact Address: 577 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 617-562-7361
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Receive Date: 19830607

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19830607
Handler Name: ATLANTIC BUSINESS FORMS
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 577 MAIN ST
Name: JAMES GORIN	Street 2:
Date Became Current: 20041016	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

15	3 of 8	WNW	0.12 / 652.93	203.23 / 9	INSTRUMENTATION LAB INC 577 MAIN ST HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID: MAD982200099
Gen Status Universe: No Report
Contact Name: SIMON ESSAJANIAN
Contact Address: 577 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-562-6357
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19870611

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19870611
Handler Name: INSTRUMENTATION LAB INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 577 MAIN ST
Name: INSTRUMENTATION LABORATORY	Street 2:
Date Became Current: 20041016	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 577 MAIN ST
Name: INSTRUMENTATION LAB INC	Street 2:
Date Became Current: 19900301	City: HUDSON
Date Ended Current: 19910630	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

15	4 of 8	WNW	0.12 / 652.93	203.23 / 9	CENTERLINE TECHNOLOGIES LLC 577 MAIN ST HUDSON MA 01749	RCRA SQG
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EPA Handler ID: MAC300005709
Gen Status Universe: Small Quantity Generator
Contact Name: HUGH MUFFOLETTO
Contact Address: 577 MAIN ST , , HUDSON , MA, 01749-0000 , US
Contact Phone No and Ext: 978-568-1330

Contact Email: HUGH@CENTERLINETECH-USA.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20060111

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20100603
Scheduled Compliance Date:
Return to Compliance: D
Actual Return to Compl: 20100609
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20100614
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20100614
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20100603
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20100609
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sequence No: 1
Receive Date: 20060111
Handler Name: CENTERLINE TECHNOLOGIES LLC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	577 MAIN ST
Name:	CENTERLINE TECHNOLOGIES LLC	Street 2:	
Date Became Current:	20051013	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	577 MAIN ST
Name:	577 MAIN ST LLC	Street 2:	
Date Became Current:	19990217	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

15	5 of 8	WNW	0.12 / 652.93	203.23 / 9	JAMES GORIN REALTY TRUST 577 MAIN ST HUDSON MA 01749	SPILLS
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RTN: 2-0000204
Primary ID:
Compliance Status:
Current Status: WCSPRM
Current Status Desc: A Waiver Completion Statement has been submitted to DEP
Current Date: 6/3/1992
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: WCSPRM
Location Type: INDUSTRIAL
Category: NONE
Initial Status Date: 6/26/1995
Notification Date: 1/15/1987
Source: UNCONTAIN
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0000204>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: NOR
Status: ISSUED
RAO Class:
Date: 5/26/1987
Status Description: Correspondence Issued

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		TREGS				
Status:		WAVACC				
RAO Class:						
Date:		6/26/1990				
Status Description:		WAVACC				
Action:		REL				
Status:		TCTRNS				
RAO Class:						
Date:		1/15/1987				
Status Description:		Valid Transition Site (Retired)				
Action:		TREGS				
Status:		WAVSIG				
RAO Class:						
Date:		6/5/1990				
Status Description:		WAVSIG				
Action:		TREGS				
Status:		WAVREC				
RAO Class:						
Date:		3/2/1990				
Status Description:		WAVREC				
Action:		TREGS				
Status:		WCSPRM				
RAO Class:						
Date:		6/3/1992				
Status Description:		WCSPRM				
<u>Chemical Information</u>						
Chemical:		VOCS				
Amount:						
Unit:						
<u>Response Action Information</u>						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		TCTRNS Tier Classified Transition Sites				
Submittal Date:		01/15/1987				
RAO Class:						
Activity Use Limitation:						
<u>Location Information</u>						
Location:		INDUSTRIAL				
<u>Source Information</u>						
Source:		UNCONTAIN				

[15](#)

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WNW

0.12 /
652.93

203.23 /
9

**ADAPTIVE WIRELESS
SOLUTIONS
577 MAIN ST
HUDSON MA 01749**

GEN

EPA ID No: MV9788756012
2nd Name:
Phone: 978-875-6012

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
15	7 of 8	WNW	0.12 / 652.93	203.23 / 9	CENTERLINE TECHNOLOGIES LLC 577 MAIN ST HUDSON MA 01749	GEN
EPA ID No:		MAC300005709				
2nd Name:						
Phone:		978-568-1330				
15	8 of 8	WNW	0.12 / 652.93	203.23 / 9	JET MAIL SERVICES 577 MAIN ST HUDSON MA 01749	GEN
EPA ID No:		MV9785621612				
2nd Name:						
Phone:		978-562-1612				
16	1 of 1	WNW	0.18 / 964.82	213.43 / 20	HUDSON POLY BAG INC 578 MAIN ST HUDSON MA 01749	RCRA CESQG
EPA Handler ID:		MAR000577213				
Gen Status Universe:		VSG				
Contact Name:						
Contact Address:		578 , MAIN ST , , HUDSON , MA, 01749 , US				
Contact Phone No and Ext:		978-562-7566				
Contact Email:						
Contact Country:		US				
County Name:		WORCESTER				
EPA Region:		01				
Land Type:		Private				
Receive Date:		20200309				

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200309
Handler Name: HUDSON POLY BAG INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Implementer

17	1 of 2	WNW	0.13 / 688.89	208.32 / 15	SOUTH SIDE MAIN ST WEST OF PARMENTER RD 571 MAIN ST HUDSON MA	RELEASE
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RTN:	2-0010785	Phase:	PHASE II
Compliance Date:	5/17/1996	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	5/18/1995	Site Name (BWSC):	SOUTH SIDE MAIN ST WEST OF PARMENTER RD
Source:		Address (BWSC):	571 MAIN ST
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	SOUTH SIDE MAIN ST WEST OF PARMENTER RD	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	571 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010785		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010785		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: ETHENE, 1,1-DICHLORO-
Amount: 48
Units: PPB

Action Information (BWSC)

Status:	CSRCVD	F Name:	
Date:	17-May-1996	L Name:	
Action:	PHASEI		
Action Description:	Phase 1		
Status Description:	Completion Statement Received		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	REPORT	F Name:	
Date:	18-May-1995	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	FEEREC	F Name:	
Date:	21-May-1996	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Fee Received		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	ISSUED	F Name:	
Date:	24-May-1995	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	B1		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 17-May-1996 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 18-May-1995 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 17-May-1996 **OHM:** Hazardous Material
OFC Notification: 18-May-1995
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

17	2 of 2	WNW	0.13 / 688.89	208.32 / 15	LUND PRECISION PRODUCTS INC 571 MAIN ST HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID: MAD981062631
Gen Status Universe: No Report
Contact Name: JOHN JORDAN
Contact Address: 34 HAYDEN ROWE ST , STE 192 , HOPKINTON , MA, 01748-0000 , US
Contact Phone No and Ext: 508-435-1544 250
Contact Email: 0@0.0
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20070131

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 351(9)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20020522
Scheduled Compliance Date: 20021111
Return to Compliance: Documented
Actual Return to Compl: 20030223
Violation Responsible Agency: State

Enforcement Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20021021
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 6700
Paid Amount: 6700

Violation Details

Citation: SR - 351(1)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20020522
Scheduled Compliance Date: 20021111
Return to Compliance: Observed
Actual Return to Compl: 20030221
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20021021
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 6700
Paid Amount: 6700

Violation Details

Citation: SR - 682
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20020522
Scheduled Compliance Date: 20021111
Return to Compliance: Observed
Actual Return to Compl: 20030221
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 20021021
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount: 6700
Paid Amount: 6700

Violation Details

Citation: SR - 253(5b),340(1k)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20020522
Scheduled Compliance Date: 20021111

Return to Compliance: Observed
 Actual Return to Compl: 20030221
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
 Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
 Enforcement Action Date: 20021021
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount: 6700
 Paid Amount: 6700

Violation Details

Citation: SR - 351(4)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 20020522
 Scheduled Compliance Date: 20021111
 Return to Compliance: Observed
 Actual Return to Compl: 20030221
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 310
 Enforcement Type Description: FINAL 3008(A) COMPLIANCE ORDER
 Enforcement Action Date: 20021021
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount: 6700
 Paid Amount: 6700

Violation Details

Citation:
 Violation Short Description: Generators - General
 Violation Type: 262.A
 Violation Determined Date: 19890213
 Scheduled Compliance Date: 19890420
 Return to Compliance: Observed
 Actual Return to Compl: 19890710
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19890330
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19850516
Scheduled Compliance Date:
Return to Compliance: Observed
Actual Return to Compl: 19920723
Violation Responsible Agency: State

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19850516
Scheduled Compliance Date: 19850614
Return to Compliance: Observed
Actual Return to Compl: 19850723
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19850528
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20050721
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20030221
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20020522
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20030223
Evaluation Agency: State

Evaluation Start Date: 20020522
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20030221
Evaluation Agency: State

Evaluation Start Date: 19930901
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Evaluation Start Date: 19920609
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19890213
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19890710
Evaluation Agency: State

Evaluation Start Date: 19850723
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19850516
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19850723
Evaluation Agency: State

Evaluation Start Date: 19850516
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19920723
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19850117
Handler Name: LUND PRECISION PRODUCTS INC
Source Type: Notification
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20021030
Handler Name: LUND PRECISION PRODUCTS INC
Source Type: Notification
Federal Waste Generator Code: 2

Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20050809
Handler Name: LUND PRECISION PRODUCTS INC
Source Type: Notification
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D039
Waste Code Description: TETRACHLOROETHYLENE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20070131
Handler Name: LUND PRECISION PRODUCTS INC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 34 HAYDEN ROWE ST
Name: LUND PRECISION PRODUCTS INC	Street 2: STE 192
Date Became Current: 19850301	City: HOPKINTON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Implementer	Zip Code: 01748-0000

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 571 MAIN ST
Name: LUND INTERNATIONAL	Street 2:
Date Became Current: 19850301	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 34 HAYDEN ROWE ST
Name: JOHN M & FRANCIS J WALSH JR	Street 2: STE 192
Date Became Current: 20070214	City: HOPKINTON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Implementer	Zip Code: 01748-0000

Owner/Operator Ind: Current Owner	Street No:
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Type:	Private	Street 1:	571 MAIN ST
Name:	LUND PRECISION PRODUCTS INC	Street 2:	
Date Became Current:	19850117	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	571 MAIN ST
Name:	LUND PRECISION PRODUCTS INC	Street 2:	
Date Became Current:	19850301	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	571 MAIN ST
Name:	LUND INTERNATIONAL CORP	Street 2:	
Date Became Current:	19850117	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Historical Handler Details

Receive Dt: 20050809
Generator Code Description: Small Quantity Generator
Handler Name: LUND PRECISION PRODUCTS INC

Receive Dt: 20021030
Generator Code Description: Small Quantity Generator
Handler Name: LUND PRECISION PRODUCTS INC

Receive Dt: 19850117
Generator Code Description: Small Quantity Generator
Handler Name: LUND PRECISION PRODUCTS INC

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RTN:	2-0017024	Phase:	
Compliance Date:	4/2/2009	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	
Compl Status Desc:	Response Action Outcome	Location Type:	RESIDENTIAL
Notification Date:	3/27/2008	Site Name (BWSC):	COMMERCIAL BUILDING
Source:	TRANSFORM	Address (BWSC):	569 MAIN ST
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	COMMERCIAL BUILDING	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	569 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017024		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017024		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		
Report Source:			

Chemical Information (BWSC)

Chemical: PETROLEUM HYDROCARBONS
Amount: 44000
Units: MG/KG

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 09-Mar-2009 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 27-Mar-2008 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 02-Apr-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 30-Jun-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 02-Apr-2009 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 12-Mar-2009 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: SNAUDI **F Name:**
Date: 14-May-2009 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level II - Audit Inspection
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ALSNT **F Name:**
Date: 07-Jan-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRUN **F Name:**
Date: 25-Mar-2009 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Compliance Field Response - Unannounced				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	NAFNVD				F Name:	
Date:	14-May-2009				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	ISSUED				F Name:	
Date:	07-Apr-2008				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	27-Mar-2008				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	02-Apr-2009	OHM:	
OFC Notification:	27-Mar-2008		
Phase Desc:			
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.	
Other Rela:			

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RTN:	2-0017024
Primary ID:	
Compliance Status:	
Current Status:	RAO
Current Status Desc:	Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date:	4/2/2009
RAO Class:	A2
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:	
Release Type:	RAO
Location Type:	RESIDENTIAL
Category:	120 DY
Initial Status Date:	3/27/2009
Notification Date:	3/27/2008
Source:	TRANSFORM
Additional Files URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0017024
Phase:	
Phase Desc:	
Office Town:	HUDSON

Actions

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		RNF				
Status:		REPORT				
RAO Class:		A2				
Date:		3/27/2008				
Status Description:		Reportable Release under MGL 21E				
Action:		NOR				
Status:		ISSUED				
RAO Class:		A2				
Date:		4/7/2008				
Status Description:		Correspondence Issued				
Action:		RAO				
Status:		TSAUD				
RAO Class:		A2				
Date:		6/30/2009				
Status Description:		Level I - Technical Screen Audit				
Action:		RAM				
Status:		FEEREC				
RAO Class:		A2				
Date:		3/9/2009				
Status Description:		Fee Received				
Action:		RLFA				
Status:		FLDRUN				
RAO Class:		A2				
Date:		3/25/2009				
Status Description:		Compliance Field Response - Unannounced				
Action:		NOR				
Status:		ALSENT				
RAO Class:		A2				
Date:		1/7/2009				
Status Description:		Anniversary Letter Sent				
Action:		RAM				
Status:		CSRCVD				
RAO Class:		A2				
Date:		4/2/2009				
Status Description:		Completion Statement Received				
Action:		RAM				
Status:		SNAUDI				
RAO Class:		A2				
Date:		5/14/2009				
Status Description:		Level II - Audit Inspection				
Action:		REL				
Status:		REPORT				
RAO Class:		A2				
Date:		3/27/2008				
Status Description:		Reportable Release under MGL 21E				
Action:		RAM				
Status:		PLANWR				
RAO Class:		A2				
Date:		3/12/2009				
Status Description:		Written Plan Received				
Action:		RAO				
Status:		RAORCD				
RAO Class:		A2				
Date:		4/2/2009				
Status Description:		RAO Statement Received (retired)				
Action:		AUDCOM				
Status:		NAFNVD				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
Date:		5/14/2009				
Status Description:		NAFNVD				
<u>Chemical Information</u>						
Chemical:		PETROLEUM HYDROCARBONS				
Amount:		44000				
Unit:		MG/KG				
<u>LSP Information</u>						
LSP:		5928				
Name:		MOORE, JONATHAN S				
<u>Response Action Information</u>						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		03/27/2008				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RNF Release Notification Form Received				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		03/27/2008				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAM Release Abatement Measure				
Status:		SNAUDI Level II - Audit Inspection				
Submittal Date:		05/14/2009				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		TSAUD Level I - Technical Screen Audit				
Submittal Date:		06/30/2009				
RAO Class:		A2				
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		A2				
Method:		1				
GW Category:		N				
Soil Category:		1				
<u>Location Information</u>						
Location:		RESIDENTIAL				
<u>Source Information</u>						
Source:		TRANSFORM				

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WNW

0.07 /
394.11

207.29 /
14

MACH MACHINE INC
569 MAIN ST
HUDSON MA 01749

RCRA CESQG

EPA Handler ID: MAD985297415

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Gen Status Universe:		Conditionally Exempt Small Quantity Generator				
Contact Name:		DAN OLSEN				
Contact Address:		569 , MAIN ST , , HUDSON , MA, 01749 , US				
Contact Phone No and Ext:		978-274-5700 405				
Contact Email:		DAN.OLSEN@MACHMACHINE.COM				
Contact Country:		US				
County Name:		MIDDLESEX				
EPA Region:		01				
Land Type:		Private				
Receive Date:		20180710				

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20090122
Scheduled Compliance Date: 20090304
Return to Compliance: Documented
Actual Return to Compl: 20090414
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20090227
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20090414
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20090122
Scheduled Compliance Date: 20090318
Return to Compliance: Documented
Actual Return to Compl: 20090414
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20090227
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20090414
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Evaluation Details

Evaluation Start Date: 20090122
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20090414
Evaluation Agency: State

Evaluation Start Date: 19911217
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19910624
Handler Name: LAPOINTE HUDSON BROACH COMPANY INC
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Notification

Waste Code Details

Hazardous Waste Code: U092
Waste Code Description: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19911220
Handler Name: LAPOINTE HUDSON BROACH COMPANY INC
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20070921
Handler Name: LAPOINTE HUDSON BROACH COMPANY INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Implementer

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20151013
Handler Name: LAPOINTE HUDSON BROACH COMPANY INC
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20180710
Handler Name: MACH MACHINE INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	569 MAIN ST
Name: ROGER K AND SHIRLEY M KANE	Street 2:	
Date Became Current: 19890809	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Implementer	Zip Code:	01749-0000
Owner/Operator Ind: Current Operator	Street No:	569
Type: Private	Street 1:	MAIN ST
Name: DAN OLSEN	Street 2:	
Date Became Current: 20150701	City:	HUDSON
Date Ended Current:	State:	MA
Phone: 978-274-5700	Country:	US
Source Type: Notification	Zip Code:	01749
Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	569 MAIN ST
Name: MARBAIX HOLDINGS	Street 2:	
Date Became Current: 20041016	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	
Name:	LAPOINTE HUDSON BROACH CORP				Street 2:	
Date Became Current:	19910630				City:	
Date Ended Current:					State:	
Phone:					Country:	
Source Type:	Implementer				Zip Code:	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	569 MAIN ST
Name:	LAPOINTE HUDSON BROACH CORP				Street 2:	
Date Became Current:	19910630				City:	HUDSON
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01749
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	569 MAIN ST
Name:	LAPOINTE HUDSON BROACH COMPANY INC				Street 2:	
Date Became Current:	19910630				City:	HUDSON
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Implementer				Zip Code:	01749-0000
Owner/Operator Ind:	Current Owner				Street No:	569
Type:	Private				Street 1:	MAIN ST
Name:	DAN OLSEN				Street 2:	
Date Became Current:	20150701				City:	HUDSON
Date Ended Current:					State:	MA
Phone:	978-274-5700				Country:	US
Source Type:	Notification				Zip Code:	01749

Historical Handler Details

Receive Dt:	20151013
Generator Code Description:	Not a Generator, Verified
Handler Name:	LAPOINTE HUDSON BROACH COMPANY INC
Receive Dt:	20070921
Generator Code Description:	Very Small Quantity Generator
Handler Name:	LAPOINTE HUDSON BROACH COMPANY INC
Receive Dt:	19911220
Generator Code Description:	Not a Generator, Verified
Handler Name:	LAPOINTE HUDSON BROACH COMPANY INC
Receive Dt:	19910624
Generator Code Description:	Not a Generator, Verified
Handler Name:	LAPOINTE HUDSON BROACH COMPANY INC

18	4 of 7	WNW	0.07 / 394.11	207.29 / 14	MACH MACHINE INC 569 MAIN ST HUDSON MA 01749	GEN
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EPA ID No:	MAD985297415
2nd Name:	
Phone:	978-274-5700

18	5 of 7	WNW	0.07 / 394.11	207.29 / 14	COMMERCIAL 569 MAIN STREET HUDSON MA	ASBESTOS PROJECT
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Project ID:	100228642R2	Project Start Dt:	09/24/2015
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Form Type: ANF-001 Project End Dt: 09/26/2015 Project Type: Renv Owner Name: DAN TURCOTTE Owner address: 569 MAIN STREET DLS Contractor: A & E ENVIRONMENTAL INC DLS Contractor ID: AC000326 Site Supervisor: PEDRO J DIPRE-ROJAS Site Supervisor ID: AS901281						
18	6 of 7	WNW	0.07 / 394.11	207.29 / 14	COMMERCIAL 569 MAIN STREET HUDSON MA	ASBESTOS PROJECT
Project ID: 100228642 Project Start Dt: 09/24/2015 Form Type: ANF-001 Project End Dt: 09/24/2015 Project Type: Renv Owner Name: DAN TURCOTTE Owner address: 569 MAIN STREET DLS Contractor: A & E ENVIRONMENTAL INC DLS Contractor ID: AC000326 Site Supervisor: PEDRO J DIPRE-ROJAS Site Supervisor ID: AS901281						
18	7 of 7	WNW	0.07 / 394.11	207.29 / 14	COMMERCIAL 569 MAIN STREET HUDSON MA	ASBESTOS PROJECT
Project ID: 100228642R1 Project Start Dt: 09/24/2015 Form Type: ANF-001 Project End Dt: 09/25/2015 Project Type: Renv Owner Name: DAN TURCOTTE Owner address: 569 MAIN STREET DLS Contractor: A & E ENVIRONMENTAL INC DLS Contractor ID: AC000326 Site Supervisor: PEDRO J DIPRE-ROJAS Site Supervisor ID: AS901281						
19	1 of 4	WNW	0.23 / 1,238.51	250.12 / 56	NO LOCATION AID 17 BRNT DRIVE HUDSON MA	AUL
RTN: 2-0017907 Phase: PHASE II Compliance Status: RAO Location Type(s): Compl Status Desc: Response Action Outcome Site Name (BWSC): NO LOCATION AID Compliance Date: 6/23/2011 Address (BWSC): 17 BRNT DRIVE Notification Date: 6/16/2010 Town (BWSC): HUDSON RAO Class: B2 Zip Code (BWSC): 01749-0000 Chemical Type: Oil and Hazardous Material OFC Town (BWSC): HUDSON Reporting Category: 120 DY Source(s): Site Name (EEA Data Portal): NO LOCATION AID Release Add (EEA Data Portal): 17 BRNT DRIVE City/Town (EEA Data Portal): HUDSON Phase Desc: Comprehensive Site Assessment RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.						
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017907 Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017907 Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)						

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 23-Jun-2011
OFC Notification: 16-Jun-2010
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Other Rela:

Category: 120 DY
Phase: PHASE II
RAO Class: B2
OHM: Oil and Hazardous Material

Chemical Information

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 803
Units: MG/KG

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 6990
Units: UG/L

Chemical: TETRACHLOROETHANE
Amount: 11
Units: MG/KG

Action Information

Date: 03-Aug-2011
Action: AUL
Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

First Name:
Last Name:

Date: 24-Jun-2011
Action: PHASEI
Action Description: Phase 1
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

First Name:
Last Name:

Date: 28-Jun-2011
Action: RAO
Action Description: Response Action Outcome -RAO
Status: FEEREC
Status Description: Fee Received
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

First Name:
Last Name:

Date: 23-Jun-2011
Action: RAO
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

First Name:
Last Name:

Date: 19-Aug-2011
Action: RAO
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit

First Name:
Last Name:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
RAO Class:		B2				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.				
Date:	16-Jun-2010				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	31-May-2012				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	ACTAUD					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	27-Jul-2012				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUCS					
Status Description:						
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	31-May-2012				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	07-Jul-2011				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	18-May-2012				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	13-Sep-2011				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	LEGNOT					
Status Description:	Legal Notice Published					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Date:	19-Aug-2011				First Name:	
Action:	AUL				Last Name:	

Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Date: 16-Jun-2010 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Date: 27-Jul-2012 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: CONFRM
Status Description: Confirmatory AUL received
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Date: 25-Aug-2011 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Date: 07-Oct-2011 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRAN
Status Description: Compliance Field Response - Announced
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

19	2 of 4	WNW	0.23 / 1,238.51	250.12 / 56	NO LOCATION AID 17 BRNT DRIVE HUDSON MA	RELEASE
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RTN: 2-0017907 **Phase:** PHASE II
Compliance Date: 6/23/2011 **RAO Class:** B2
Compliance Status: RAO **Chemical Type:** Oil and Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 6/16/2010 **Site Name (BWSC):** NO LOCATION AID
Source: **Address (BWSC):** 17 BRNT DRIVE
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 17 BRNT DRIVE **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017907>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017907>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical:			C5 THRU C8 ALIPHATIC HYDROCARBONS			
Amount:			803			
Units:			MG/KG			
Chemical:			TETRACHLOROETHANE			
Amount:			11			
Units:			MG/KG			
Chemical:			C5 THRU C8 ALIPHATIC HYDROCARBONS			
Amount:			6990			
Units:			UG/L			

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 23-Jun-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: AFUCS **F Name:**
Date: 27-Jul-2012 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: TSAUD **F Name:**
Date: 19-Aug-2011 **L Name:**
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: CSRCVD **F Name:**
Date: 24-Jun-2011 **L Name:**
Action: PHASE1
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: TSAUD **F Name:**
Date: 19-Aug-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: FLDRAN **F Name:**
Date: 07-Oct-2011 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	LEGNOT				F Name:	
Date:	13-Sep-2011				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Legal Notice Published					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	FEEREC				F Name:	
Date:	28-Jun-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	ACTAUD				F Name:	
Date:	31-May-2012				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	TSAUD				F Name:	
Date:	03-Aug-2011				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	FLDRAN				F Name:	
Date:	18-May-2012				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	NAFNON				F Name:	
Date:	31-May-2012				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	RECPT				F Name:	
Date:	07-Jul-2011				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	B2					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.					
Status:	REPORT				F Name:	
Date:	16-Jun-2010				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B2					

RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: CONFRM
Date: 27-Jul-2012
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Confirmatory AUL received
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: TSAUD
Date: 25-Aug-2011
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Level I - Technical Screen Audit
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Status: REPORT
Date: 16-Jun-2010
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B2
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 23-Jun-2011
OFC Notification: 16-Jun-2010
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Category: 120 DY
Phase: PHASE II
RAO Class: B2
OHM: Oil and Hazardous Material

Other Rela:

19	3 of 4	WNW	0.23 / 1,238.51	250.12 / 56	NORTHEAST GREAT DANE 17 BRENT DR HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID: MAD079525242
Gen Status Universe: No Report
Contact Name: NORTH EAST GREA IND
Contact Address: 315 SUNNYMEADE ROAD , , HILLSBOROUGH , NJ, 08861-0000 , US
Contact Phone No and Ext: 800-231-6343 1100
Contact Email: GNEWCOMB@NEGD.NET
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20090717

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19800829
Handler Name: NORTHEAST GREAT DANE
Source Type: Notification
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19920630
Handler Name: NORTHEAST GREAT DANE
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20090717
Handler Name: NORTHEAST GREAT DANE
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	17 BRENT DR
Name: TORWELL IND INC	Street 2:	
Date Became Current: 19911208	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Implementer	Zip Code:	01749-0000

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	
Name: TORWELL IND INC	Street 2:	
Date Became Current: 19911208	City:	
Date Ended Current:	State:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone:						
Source Type:	Notification				Country: Zip Code:	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	17 BRENT DR
Name:	TORWELL IND INC				Street 2:	
Date Became Current:	19911208				City:	HUDSON
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Implementer				Zip Code:	01749-0000
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	315 SUNNYMEADE ROAD
Name:	ROAD HOLE REALTY				Street 2:	
Date Became Current:	19911208				City:	HILLSBOROUGH
Date Ended Current:					State:	NJ
Phone:					Country:	US
Source Type:	Notification				Zip Code:	08861-0000
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	315 SUNNYMEADE ROAD
Name:	NORTH EAST GREAT DANE				Street 2:	
Date Became Current:	19671208				City:	HILLSBOROUGH
Date Ended Current:					State:	NJ
Phone:					Country:	US
Source Type:	Notification				Zip Code:	08861-0000
Historical Handler Details						
Receive Dt:	19920630					
Generator Code Description:	Not a Generator, Verified					
Handler Name:	NORTHEAST GREAT DANE					
Receive Dt:	19800829					
Generator Code Description:	Very Small Quantity Generator					
Handler Name:	NORTHEAST GREAT DANE					
19	4 of 4	WNW	0.23 / 1,238.51	250.12 / 56	Blank Industrial Realty 17 Brent Drive Hudson MA	BROWNFIELDS
RTN:	2-0017907				Rao:	B2
Other RTNs:					Aul:	Yes
Map Par ID:	46_15				Cocs:	Hydrocarbons, Tetrachloroethane
Loc ID:	M_199508_904063				Former Use:	
MCP Status:	RAO				Current Use:	Light Industrial
Site Name(MassDEP):	Blank Industrial Realty				Total Acreage:	4.82
Address (MassDEP):	17 Brent Drive				Shape Le:	619.198022459
City (MassDEP):	Hudson				Shape Ar:	19690.333902
Site Name (CERO):	NO LOCATION AID				Acres:	4.86558747029
Address (CERO):	17 BRENT DR				Shape Are:	36117.953125
City (CERO):	HUDSON				Shape Len:	839.237086344
Data Source:	MassDEP Brownfields List; MassDEP CERO Brownfields GIS Tool					
Current Owner:	Blank Industrial Realty Llc					
Fact Sheet:	http://massdep.org/CERO/2-0017907.pdf					
20	1 of 2	WNW	0.23 / 1,214.14	248.87 / 55	HYPERTRONICS - HYPERTAC 16 BRENT DR. HUDSON MA	RELEASE
RTN:	2-0018206				Phase:	
Compliance Date:	7/22/2011				RAO Class:	A1
Compliance Status:	RAO				Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome				Location Type:	COMMERCIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Notification Date:	5/25/2011				Site Name (BWSC):	HYPERTRONICS - HYPERTAC
Source:	VEHICLE				Address (BWSC):	16 BRENT DR.
Reporting Category:	TWO HR				Town (BWSC):	HUDSON
Site (EEA Data):	HYPERTRONICS - HYPERTAC				Zip Code (BWSC):	
Rel Add(EEA Data):	16 BRENT DR.				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018206					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018206					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Action Information (BWSC)

Status: RECPT **F Name:**
Date: 22-Jul-2011 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 25-May-2011 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: TSAUD **F Name:**
Date: 09-Aug-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 25-May-2011 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 26-May-2011 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: ISSUED **F Name:**
Date: 23-Jun-2011 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 22-Jul-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 22-Jul-2011 **OHM:** Oil
OFC Notification: 25-May-2011
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

20	2 of 2	WNW	0.23 / 1,214.14	248.87 / 55	HYPERTRONICS CORP 16 BRENT DR HUDSON MA 01749	RCRA CESQG
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EPA Handler ID: MAD980915813
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: VADIM RADUNSKY
Contact Address: 16 BRENT DR , , HUDSON , MA, 01749-0000 , US
Contact Phone No and Ext: 508-568-2358
Contact Email: VRADUNSKY@HYPERTRONICS.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20090527

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20110302
Scheduled Compliance Date: 20110615
Return to Compliance: Documented
Actual Return to Compl: 20110527
Violation Responsible Agency: State

Enforcement Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20110510
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20090430
Scheduled Compliance Date: 20090522
Return to Compliance: Documented
Actual Return to Compl: 20090527
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20090518
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20090629
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20090430
Scheduled Compliance Date: 20090522
Return to Compliance: Documented
Actual Return to Compl: 20090527
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20090518
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20090629
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20090430
Scheduled Compliance Date: 20090621

Return to Compliance: Documented
 Actual Return to Compl: 20090527
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 20090518
 Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
 Disposition Status Date: 20090629
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation:
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 20090430
 Scheduled Compliance Date: 20090605
 Return to Compliance: Documented
 Actual Return to Compl: 20090527
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 20090518
 Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
 Disposition Status Date: 20090629
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Evaluation Details

Evaluation Start Date: 20110302
 Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
 Violation Short Description: State Statute or Regulation
 Return to Compliance Date: 20110527
 Evaluation Agency: State

Evaluation Start Date: 20090430
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Violation Short Description: State Statute or Regulation
 Return to Compliance Date: 20090527
 Evaluation Agency: State

Evaluation Start Date: 20090430
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Violation Short Description: Generators - Pre-transport
 Return to Compliance Date: 20090527
 Evaluation Agency: State

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19840727
Handler Name: HYPERTRONICS CORP
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: F001
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20090527
Handler Name: HYPERTRONICS CORP
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Code: MA95
Waste Code Description: UNIVERSAL WASTE

Hazardous Waste Code: MA97
Waste Code Description: CLASS A REGULATED RECYCLABLE MATERIAL (INCLUDING BUT NOT LIMITED TO SPECIFICATION USED OIL FUEL) THAT IS SHIPPED USING A HAZARDOUS WASTE MANIFEST

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	16 BRENT DR
Name:	HYPERTRONICS CORP	Street 2:	
Date Became Current:	19840326	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	16 BRENT DR
Name:	HYPERTRONICS CORP	Street 2:	
Date Became Current:	19700301	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	16 BRENT DR
Name:	HYPERTRONICS CORP	Street 2:	
Date Became Current:	19840326	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Historical Handler Details

Receive Dt: 19840727
 Generator Code Description: Very Small Quantity Generator
 Handler Name: HYPERTRONICS CORP

21	1 of 1	NW	0.55 / 2,879.18	208.54 / 15	RESIDENCE 150 NORTH SHORE DR STOW MA	RELEASE
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RTN:	2-0010012	Phase:	
Compliance Date:	7/31/1995	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	RESIDENTIAL
Notification Date:	10/6/1993	Site Name (BWSC):	RESIDENCE
Source:	UNKNOWN	Address (BWSC):	150 NORTH SHORE DR
Reporting Category:	TWO HR	Town (BWSC):	STOW
Site (EEA Data):	RESIDENCE	Zip Code (BWSC):	01775
Rel Add(EEA Data):	150 NORTH SHORE DR	OFC Town (BWSC):	STOW
Town (EEA Data):	STOW		

RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010012>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010012>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 1.3
Units: PPM

Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)
Amount: 3
Units: MG/L

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 31-Jul-1995 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: CSRCVD **F Name:**
Date: 06-Oct-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: NON **F Name:**
Date: 11-Jul-1994 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REQPLN **F Name:**
Date: 06-Oct-1993 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Plan Denied and/or Written Plan Requested
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 28-Jul-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 02-Jun-1994 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 23-May-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: NON **F Name:**
Date: 19-Jun-1995 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	PLANWR				F Name:	
Date:	06-Oct-1994				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	ISSUED				F Name:	
Date:	07-Oct-1993				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	FEEREC				F Name:	
Date:	27-Jul-1995				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	REPORT				F Name:	
Date:	06-Oct-1993				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	FOLOFF				F Name:	
Date:	26-Oct-1993				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	31-Jul-1995	OHM:	Oil
OFC Notification:	06-Oct-1993		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Other Rela:

[22](#)

1 of 2

WNW

0.06 /
312.01

203.45 /
10

ENGINE CLEANING
1 KANE INDUSTRIAL PARK
HUDSON MA

HIS SPILLS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Spill ID:	C92-0122	Repo Units Spilled:	-----
Site ID:	0000	Act. Qty Spilled:	UNKNOWN
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	NO	Spill Date:	
Incident:	SPILL	Spill Time:	
Other Incident:		Rport Date:	
Source:	OTHER SOURCE >	Rport Time:	11:40AM
Other Source:	ENGINE CLEANING	Notifier:	ANONYMOUS
Petro/Hazardous:	BOTH	Notifier Phone:	
Virgin/Waste:	WASTE	First IR Form:	
Material:	OTHER MATERIAL -->	Staff Lead:	PHILLIPS, B
Other Material:	ENGINE STEAM CLEANING MAT	Category:	
Enviro Impact:	SOIL	Days For Case:	7
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	-----	Referral Divisions:	NO
Reported Qty Spilled:	UNKNOWN		
CAS NO for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:			

22	2 of 2	WNW	0.06 / 312.01	203.45 / 10	WASTE OIL AND LUBRICANTS 1 KANE INDUSTRIAL DR. HUDSON MA	HIS SPILLS
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Spill ID:	C93-0030	Repo Units Spilled:	GALLONS
Site ID:	0000	Act. Qty Spilled:	UNKNOWN
Case Closed:	YES	Act. Units Spilled:	GALLONS
LUST:	NO	Spill Date:	
Incident:	DUMPING	Spill Time:	
Other Incident:		Rport Date:	
Source:	OTHER SOURCE >	Rport Time:	10:48AM
Other Source:	UNKNOWN	Notifier:	BILL VERDONE, EPA (800) 4
Petro/Hazardous:	BOTH	Notifier Phone:	
Virgin/Waste:	WASTE	First IR Form:	
Material:	OTHER MATERIAL -->	Staff Lead:	PHILLIPS, B
Other Material:	WASTE OIL AND LUBRICANTS	Category:	
Enviro Impact:	SOIL	Days For Case:	0
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	NONE	Referral Divisions:	NO
Reported Qty Spilled:	UNKNOWN		
CAS NO for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:			

23	1 of 3	WNW	0.01 / 31.29	209.04 / 15	RICHS AUTO PARTS INC 566 MAIN ST HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID:	MAD041701699
Gen Status Universe:	No Report
Contact Name:	DAVID RICH
Contact Address:	562 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext:	508-562-6393
Contact Email:	
Contact Country:	US
County Name:	MIDDLESEX
EPA Region:	01
Land Type:	Private
Receive Date:	19870316

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19870316
Handler Name: RICHS AUTO PARTS INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	562 MAIN ST
Name: RICH E VAUGHN	Street 2:	
Date Became Current: 20041016	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	562 MAIN ST
Name: RICHS AUTO PARTS INC	Street 2:	
Date Became Current: 19580301	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

23	2 of 3	WNW	0.01 / 31.29	209.04 / 15	RICHS AUTO PARTS INC 566 MAIN ST HUDSON MA 017490000	FINDS/FRS
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Registry ID: 110024368708
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 24-JAN-06
Update Date: 05-MAR-13
Interest Types: FORMAL ENFORCEMENT ACTION, STATE MASTER, UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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NAICS Code Descriptions:

Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173221001033
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.39047
Longitude: -71.51051
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110024368708
Program Acronyms:

ICIS:23996, MA-EPICS:133701, RCRAINFO:MAD041701699

23	3 of 3	WNW	0.01 / 31.29	209.04 / 15	RICHS AUTO PARTS INC 566 MAIN ST HUDSON MA 01749	ICIS
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EPA Region:	01	Federal Facility ID:	
FRS Facility UIN:	110024368708	Tribal Land Code:	
Program Syst ID:	23996	County:	Middlesex
Prog Sys Acronym:	ICIS	Latitude:	42.391256
Permit Type:		Longitude:	-71.506383

--Details--

EA Identifier:	01-1997-0145	Enf Act Forum Dsc:	Administrative - Formal
EA Type Code:	309	Fac NAICS Code:	
EA Type Desc:	CWA 309 AO For Compliance (Old)	Facility SIC Code:	
EA Name:	RICHS AUTO PARTS INC		

24	1 of 2	WNW	0.10 / 521.83	200.15 / 6	A&S DELIVERY SERVICE INC 6 KANE INDUSTRIAL DR HUDSON MA 01749	RCRA CESQG
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EPA Handler ID: MAR000504878
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: GABRIEL ST REMY
Contact Address: 6 KANE INDUSTRIAL DR , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 978-568-9925
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20021025

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20020613
Handler Name: A&S DELIVERY SERVICE INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20021025
Handler Name: A&S DELIVERY SERVICE INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 6 KANE INDUSTRIAL DR
Name: COLVIN T ALLEYNE	Street 2:
Date Became Current: 20020613	City: HUDSON
Date Ended Current: 20021025	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 6 KANE INDUSTRIAL DR
Name: BEN AND RITA ALLEYNE	Street 2:
Date Became Current: 20031025	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 6 KANE INDUSTRIAL DRIVE
Name: A&S DELIVERY SERVICE INC	Street 2:
Date Became Current: 20020613	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:	Notification				Zip Code: 01749	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1: 6 KANE INDUSTRIAL DRIVE	
Name:	KANE INDUSTRIAL TRUST				Street 2:	
Date Became Current:	19000101				City: HUDSON	
Date Ended Current:					State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 01749	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1: 6 KANE INDUSTRIAL DRIVE	
Name:	COLVIN T ALLENE				Street 2:	
Date Became Current:	19000101				City: HUDSON	
Date Ended Current:					State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 01749	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1: 6 KANE INDUSTRIAL DR	
Name:	KANE INDUSTRIAL TRUST				Street 2:	
Date Became Current:	20020613				City: HUDSON	
Date Ended Current:	20021025				State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 01749	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1: 6 KANE INDUSTRIAL DR	
Name:	A&S DELIVERY SERVICE INC				Street 2:	
Date Became Current:	20020613				City: HUDSON	
Date Ended Current:					State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 01749	

Historical Handler Details

Receive Dt: 20020613
Generator Code Description: Very Small Quantity Generator
Handler Name: A&S DELIVERY SERVICE INC

24	2 of 2	WNW	0.10 / 521.83	200.15 / 6	A&S DELIVERY SERVICE INC 6 KANE INDUSTRIAL DR HUDSON MA 01749	GEN
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EPA ID No: MAR000504878
2nd Name:
Phone: 978-568-9925

25	1 of 1	WNW	0.12 / 649.78	201.66 / 8	JEKTEK SCREENPRINTING & EMBROIDERY LLC 5 KANE INDUSTRIAL DR HUDSON MA 01749	GEN
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EPA ID No: MV9785620602
2nd Name:
Phone: 978-562-0602

26	1 of 1	W	0.83 / 4,393.39	280.56 / 87	CHESTNUT STREET PFAS 308 CHESTNUT STREET HUDSON MA	RELEASE
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RTN: 2-0020923
Compliance Date: 6/24/2020
Phase:
RAO Class:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Compliance Status:	TIER1D				Chemical Type:	
Compl Status Desc:	Tier 1D				Location Type:	PRIVPROP, RESIDENTIAL
Notification Date:	6/17/2019				Site Name (BWSC):	CHESTNUT STREET PFAS
Source:	UNKNOWN				Address (BWSC):	308 CHESTNUT STREET
Reporting Category:	TWO HR				Town (BWSC):	HUDSON
Site (EEA Data):	CHESTNUT STREET PFAS				Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	308 CHESTNUT STREET				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:						
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020923					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020923					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Action Information (BWSC)

Status:	SIGACC	F Name:	
Date:	12-Jul-2019	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			

Status:	FLDDO	F Name:	
Date:	25-Jun-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Field Response - Direct Oversight		
RAO Class:			
RAO Class Desc:			

Status:	FLDDO	F Name:	
Date:	08-Jul-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Field Response - Direct Oversight		
RAO Class:			
RAO Class Desc:			

Status:	FLDDO	F Name:	
Date:	07-Jun-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Field Response - Direct Oversight		
RAO Class:			
RAO Class Desc:			

Status:	SIGACC	F Name:	
Date:	19-Jun-2019	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			

Status:	FLDDO	F Name:	
Date:	19-Jun-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Field Response - Direct Oversight		
RAO Class:			
RAO Class Desc:			

Status:	SIGACC	F Name:	
Date:	08-Jul-2019	L Name:	
Action:	C&E		

Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 18-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 01-Jul-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 07-Jun-2019 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 02-Jul-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 28-Jan-2020 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 10-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 27-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 21-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	UNCLSS	Phase:	
Current St Desc:	Unclassified	RAO Class:	
Current Date:	17-Jun-2019	OHM:	
OFC Notification:	17-Jun-2019		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

27	1 of 3	WNW	0.13 / 673.05	200.60 / 7	A & M ADVANCED PROTOTYPES 8 KANE INDUSTRIAL DRIVE HUDSON MA 017492906	CERCLIS
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Site ID:	0102840	RNPL Status Code:	N
Site EPA ID:	MA0001296904	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MIDDLESEX	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	25017	USGS Hydro Unit No.:	01070005
Region Code:	01	Site Cong. Dist. Code:	05
Site SMSA No.:		ROT Desc:	Private
Site Prim. Latitude:	+42.391400	FR NPL Update No.:	
Site Prim. Longitude:	-071.505900	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			
RAT Def:			
Site Desc:	ABANDONED TRUCK FULL OF CONTAINERS.ABANDONED TRUCK FULL OF CONTAINERS.		

Site Alias: ABANDONED TRUCK,,MA,;

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	8/13/1998 14:04:49
RAT Short Name:	ARCH SITE	AGT Order No.:	1500
RAT Name:	ARCHIVE SITE	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The decision is made that no further activity is planned at the site.		
Site Desc:			
Site Alias:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	11/1/1995 00:00:00
RAT Code:	RV	Act Complete Date:	11/2/1995 00:00:00
RAT Short Name:	RMVL	AGT Order No.:	70
RAT Name:	REMOVAL	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		
RAT Def:			

Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).

Site Desc:
Site Alias:

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	12/14/1995 00:00:00
RAT Code:	AR	Act Complete Date:	
RAT Short Name:	ADMM REC	AGT Order No.:	580
RAT Name:	ADMINISTRATIVE RECORDS	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:			

SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.

Site Desc:
Site Alias:

[27](#)

2 of 3

WNW

0.13 /
673.05

200.60 /
7

**A & M ADVANCED PROTOTYPES
8 KANE INDUSTRIAL DRIVE
HUDSON MA 17492906**

**CERCLIS
NFRAP**

Site ID:	102840	Site FIPS Code:	25017
Site EPA ID:	MA0001296904	Region Code:	1
Site Parent ID:		Site Cong. Dist. Code:	5
Site County Name:	MIDDLESEX	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	8/13/1998 2:04:49 PM
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House	RNPL Status Code:	N
RAT Def:	The decision is made that no further activity is planned at the site.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RNON NPL Status Desc: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	11/1/1995
Act Code ID:	1	Act Complete Date:	11/2/1995
RAT Code:	RV	AGT Order No.:	70
RAT Short Name:	RMVL	SH OU:	
RAT Name:	REMOVAL	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	V	SH Qual:	
SPA Code:	08	RAQ Act. Qual Short:	Cleaned Up
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).		

RNON NPL Status Desc: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	12/14/1995
Act Code ID:	1	Act Complete Date:	
RAT Code:	AR	AGT Order No.:	580
RAT Short Name:	ADMM REC	SH OU:	
RAT Name:	ADMINISTRATIVE RECORDS	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Removal AR
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.		

RNON NPL Status Desc: Removal Only Site (No Site Assessment Work Needed)

27	3 of 3	WNW	0.13 / 673.05	200.60 / 7	A & M ADVANCED PROTOTYPES 8 KANE INDUSTRIAL DRIVE HUDSON MA 01749-2906	SEMS ARCHIVE
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Site ID:	0102840	FIPS Code:	25017
EPA ID:	MA0001296904	Cong District:	05
Superfund Alt Agmt:	No	Region:	01
Federal Facility:	No	County:	MIDDLESEX
FF Docket:	N		
NPL:	Not on the NPL		
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)		

Action Information

Operable Units:	00	Start Actual:	
Action Code:	VS	Finish Actual:	08/12/1998
Action Name:	ARCH SITE	Qual:	
SEQ:	1	Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00	Start Actual:	10/31/1995
Action Code:	RV	Finish Actual:	11/01/1995
Action Name:	RMVL	Qual:	C

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SEQ:	1				Curr Action Lead: EPA Perf	
Operable Units:	00				Start Actual: 12/13/1995	
Action Code:	AR				Finish Actual:	
Action Name:	ADMIN REC				Qual: V	
SEQ:	1				Curr Action Lead: EPA Perf	

[28](#) 1 of 1 **WNW** 0.05 / 269.50 211.13 / 17 **R&L AUTOMOTIVE** 561 MAIN ST HUDSON MA 01749 **GEN**

EPA ID No: MV9785689994
2nd Name:
Phone: 978-568-9994

[29](#) 1 of 1 **ESE** 0.05 / 265.76 159.75 / -34 **C/O FLAVIO BRITO** 66 JARMAN RD SUDBURY MA **ASBESTOS PROJECT**

Project ID: 100247887 **Project Start Dt:** 08/08/2016
Form Type: ANF-001 **Project End Dt:** 08/09/2016
Project Type: Renv
Owner Name: C/O FLAVIO BRITO
Owner address: 66 JARMAN RD
DLS Contractor: NEW ENGLAND ASBESTOS ABATEMENT
DLS Contractor ID: AC000677
Site Supervisor: JOAN BERTON
Site Supervisor ID: AS002057

[30](#) 1 of 11 **WNW** 0.07 / 355.90 209.66 / 16 **E H PERKINS CONSTRUCTION** INC 560 MAIN ST HUDSON MA 01749 **UST**

Facility ID: 9946 **Address (Map):**
Owner ID: 2001 **City (Map):**
Facility Status: CLOSED **Facility Contact:**
Facility Name: E H PERKINS CONSTRUCTION INC **Facility Phone:**
Fac Add 1: 560 MAIN ST **Facility Lat:** 42.39138
Facility City: HUDSON **Facility Long:** -71.50936
Fac Name (Map):
Facility Type: Non-Retail Motor Vehicle Fuel Dispensing

Facility Information Details

Con Add 1: **Con Phone:**
Con Add 2: **Con Email:**
Con City: **Update Date:** 13-May-2013
Con State: **Update By:**

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status: CLOSED **Owner Name:** E H PERKINS CONSTRUCTION INC
Last Inspection Dt: **Owner Contact Name:**
Next Insp Due Date: **Operator Name:** E H PERKINS CONSTRUCTION INC
Last Cert Compl Dt: **Oper Contact Name:**
Next Cert Compl Due:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner Information

Owner Name:	E H PERKINS CONSTRUCTION INC	Contact Name:	
Owner Add 1:	50 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Tank ID:	3	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	24-Jan-1999	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	7600.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	2	Submersible Sump:	NO
Install Date:		Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	24-Jan-1999	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	4000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	1	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	24-Jan-1999	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Capacity: No of Compartment: Latitude: Longitude: Auto Line Lk Dtect: Pipe Install Date: Pipe Type: Pipe Construct: Pipe Leak Detect: Pipe Leak Install: Tank Construct: Tank Leak Detect: Tank Corrosion Type: Leak Corrosion Type: Note:	7600.00000				Spl Buck Installed: Spill Bucket Sens: NO Overf Prot Instled: Overfill Prot Type:	
This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).						

30	2 of 11	WNW	0.07 / 355.90	209.66 / 16	M&M DRILLING KANE PERKINS 560 MAIN ST HUDSON MA	RELEASE
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RTN: Compliance Date: Compliance Status: Compl Status Desc: Notification Date: Source: Reporting Category: Site (EEA Data): Rel Add(EEA Data): Town (EEA Data): Phase Desc: RAO Class Desc: Info URL: Docs URL: Report Source:	2-0000275 6/13/1995 RAO Response Action Outcome 7/15/1987 DRUMS NONE M&M DRILLING KANE PERKINS 560 MAIN ST HUDSON A permanent solution has been achieved. Contamination has not been reduced to background. https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000275 https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000275 Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)	Phase: RAO Class: Chemical Type: Location Type: Site Name (BWSC): Address (BWSC): Town (BWSC): Zip Code (BWSC): OFC Town (BWSC):	A2 INDUSTRIAL M&M DRILLING KANE PERKINS 560 MAIN ST HUDSON 01749 HUDSON
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Chemical Information (BWSC)

Chemical: Amount: Units:	UNKNOWN
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Action Information (BWSC)

Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	ISSUED 14-Sep-1987 NOR Notice of Responsibility Correspondence Issued A2 A permanent solution has been achieved. Contamination has not been reduced to background.	F Name: L Name:
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Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TCTRNS 15-Jul-1987 REL Release Disposition Valid Transition Site (Retired) A2 A permanent solution has been achieved. Contamination has not been reduced to background.	F Name: L Name:
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Status: Date: Action: Action Description:	PLANWR 01-Nov-1994 RAM Release Abatement Measure	F Name: L Name:
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	13-Jun-1995				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APWRIT				F Name:	
Date:	16-Nov-1994				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Approval of Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	LSPFA				F Name:	
Date:	01-Nov-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FEEREC				F Name:	
Date:	02-Nov-1994				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	12-Apr-1995				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	13-Jun-1995				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	13-Jun-1995	OHM:	
OFC Notification:	15-Jul-1987		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

30	3 of 11	WNW	0.07 / 355.90	209.66 / 16	KORO CORP 560 MAIN ST HUDSON MA 01749	RCRA NON GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
EPA Handler ID:		MAD001408624				
Gen Status Universe:		No Report				
Contact Name:		GEORGE SHIRE				
Contact Address:		560 MAIN ST , , HUDSON , MA, 01749 , US				
Contact Phone No and Ext:		508-562-7366				
Contact Email:						
Contact Country:		US				
County Name:		MIDDLESEX				
EPA Region:		01				
Land Type:		Private				
Receive Date:		19821004				

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated May, 2020.

Evaluation Details

Evaluation Start Date: 19850509
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19821004
Handler Name: KORO CORP
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: U031
Waste Code Description: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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HUDSON MA 01749

EPA Handler ID: MAD981209166
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: CHUCK ADAMS
Contact Address: 560 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-562-3436
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19861104

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19861104
Handler Name: KANE PERKINS CO INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	560 MAIN ST
Name: KANE-PERKINS CO INC	Street 2:	
Date Became Current: 20041016	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749
Owner/Operator Ind: Current Operator	Street No:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Type: Private				Street 1:	560 MAIN ST	
Name: KANE PERKINS CO INC				Street 2:		
Date Became Current: 19900301				City:	HUDSON	
Date Ended Current:				State:	MA	
Phone:				Country:	US	
Source Type: Notification				Zip Code:	01749	
30	5 of 11	WNW	0.07 / 355.90	209.66 / 16	KANE PERKINS CO INC 560 MAIN ST HUDSON MA 01749	RCRA CESQG

EPA Handler ID: MAD981897077
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: DAVID METCALF
Contact Address: 560 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-562-3436
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19861015

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20060616
Scheduled Compliance Date: 20060828
Return to Compliance: Observed
Actual Return to Compl: 20070102
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20060810
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Used Oil - Generators
Violation Type: 279.C
Violation Determined Date: 20060616
Scheduled Compliance Date: 20060828
Return to Compliance: Observed
Actual Return to Compl: 20070102
Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20060810
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20060616
Scheduled Compliance Date: 20060828
Return to Compliance: Observed
Actual Return to Compl: 20070102
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20060810
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 221(1)(a)
Violation Short Description: Listing - General
Violation Type: 261.A
Violation Determined Date: 19970429
Scheduled Compliance Date: 19970819
Return to Compliance: Observed
Actual Return to Compl: 19970806
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970730
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 333(2)
Violation Short Description: Generators - Manifest
Violation Type: 262.B

Violation Determined Date: 19970429
Scheduled Compliance Date: 19970819
Return to Compliance: Observed
Actual Return to Compl: 19970730
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970730
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970429
Scheduled Compliance Date: 19970818
Return to Compliance: Observed
Actual Return to Compl: 19970806
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970730
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19891031
Scheduled Compliance Date: 19891212
Return to Compliance: Observed
Actual Return to Compl: 19891228
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19891121
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Evaluation Details

Evaluation Start Date: 20140926
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20070102
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20060616
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Used Oil - Generators
Return to Compliance Date: 20070102
Evaluation Agency: State

Evaluation Start Date: 20060616
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20070102
Evaluation Agency: State

Evaluation Start Date: 20060616
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20070102
Evaluation Agency: State

Evaluation Start Date: 19970429
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Manifest
Return to Compliance Date: 19970730
Evaluation Agency: State

Evaluation Start Date: 19970429
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Listing - General
Return to Compliance Date: 19970806
Evaluation Agency: State

Evaluation Start Date: 19970429
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 19970806
Evaluation Agency: State

Evaluation Start Date: 19891031
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19891228
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<i>Used Oil Transporter:</i>		No				
<i>Used Oil Transfer Facility:</i>		No				
<i>Used Oil Processor:</i>		No				
<i>Used Oil Refiner:</i>		No				
<i>Used Oil Burner:</i>		No				
<i>Used Oil Market Burner:</i>		No				
<i>Used Oil Spec Marketer:</i>		No				
<u>Hazardous Waste Handler Details</u>						
<i>Sequence No:</i>		1				
<i>Receive Date:</i>		19861015				
<i>Handler Name:</i>		KANE PERKINS CO INC				
<i>Federal Waste Generator Code:</i>		3				
<i>Generator Code Description:</i>		Very Small Quantity Generator				
<i>Source Type:</i>		Notification				
<u>Waste Code Details</u>						
<i>Hazardous Waste Code:</i>		D001				
<i>Waste Code Description:</i>		IGNITABLE WASTE				
<u>Owner/Operator Details</u>						
<i>Owner/Operator Ind:</i>	Current Operator				<i>Street No:</i>	
<i>Type:</i>	Private				<i>Street 1:</i>	560 MAIN ST
<i>Name:</i>	KANE PERKINS CO INC				<i>Street 2:</i>	
<i>Date Became Current:</i>	19900301				<i>City:</i>	HUDSON
<i>Date Ended Current:</i>					<i>State:</i>	MA
<i>Phone:</i>					<i>Country:</i>	US
<i>Source Type:</i>	Notification				<i>Zip Code:</i>	01749
<i>Owner/Operator Ind:</i>	Current Owner				<i>Street No:</i>	
<i>Type:</i>	Private				<i>Street 1:</i>	560 MAIN ST
<i>Name:</i>	E H PERKINS CONST INC				<i>Street 2:</i>	
<i>Date Became Current:</i>	20041016				<i>City:</i>	HUDSON
<i>Date Ended Current:</i>					<i>State:</i>	MA
<i>Phone:</i>					<i>Country:</i>	US
<i>Source Type:</i>	Notification				<i>Zip Code:</i>	01749

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WNW

0.07 /
355.90209.66 /
16M&M DRILLING KANE PERKINS
560 MAIN ST
HUDSON MA 01749

SPILLS

RTN: 2-0000275
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 6/13/1995
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: INDUSTRIAL
Category: NONE
Initial Status Date: 8/2/1995
Notification Date: 7/15/1987
Source: DRUMS
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0000275
Phase:
Phase Desc:
Office Town: HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Actions

Action:	RAM
Status:	CSRCVD
RAO Class:	A2
Date:	6/13/1995
Status Description:	Completion Statement Received
Action:	RAO
Status:	RAORCD
RAO Class:	A2
Date:	6/13/1995
Status Description:	RAO Statement Received (retired)
Action:	TREGS
Status:	LSPFA
RAO Class:	A2
Date:	11/1/1994
Status Description:	LSPFA
Action:	REL
Status:	TCTRNS
RAO Class:	A2
Date:	7/15/1987
Status Description:	Valid Transition Site (Retired)
Action:	RAM
Status:	PLANWR
RAO Class:	A2
Date:	11/1/1994
Status Description:	Written Plan Received
Action:	RAM
Status:	FEEREC
RAO Class:	A2
Date:	11/2/1994
Status Description:	Fee Received
Action:	RAM
Status:	APWRIT
RAO Class:	A2
Date:	11/16/1994
Status Description:	Written Approval of Plan
Action:	RAM
Status:	STRCVD
RAO Class:	A2
Date:	4/12/1995
Status Description:	Status or Interim Report Received
Action:	NOR
Status:	ISSUED
RAO Class:	A2
Date:	9/14/1987
Status Description:	Correspondence Issued

Chemical Information

Chemical:	UNKNOWN
Amount:	
Unit:	

Response Action Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Response Action Type:		REL Potential Release or Threat of Release				
Status:		TCTRNS Tier Classified Transition Sites				
Submittal Date:		07/15/1987				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		RAORCD RAO Statement Received				
Submittal Date:		06/13/1995				
RAO Class:		A2				
Activity Use Limitation:		NONE				
Response Action Type:		RAM Release Abatement Measure				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		06/13/1995				
RAO Class:						
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		A2				
Method:		1				
GW Category:		1				
Soil Category:		1				
<u>Location Information</u>						
Location:		INDUSTRIAL				
<u>Source Information</u>						
Source:		DRUMS				
30	7 of 11	WNW	0.07 / 355.90	209.66 / 16	KANE PERKINS CO INC 560 MAIN ST HUDSON MA 01749	GEN
EPA ID No:		MAD981897077				
2nd Name:						
Phone:		978-562-3436				
30	8 of 11	WNW	0.07 / 355.90	209.66 / 16	GRAND IMAGE 560 MAIN ST HUDSON MA 01749	GEN
EPA ID No:		MV9785679408				
2nd Name:						
Phone:		978-567-9408				
30	9 of 11	WNW	0.07 / 355.90	209.66 / 16	PAO CORP 560 MAIN ST HUDSON MA 01749	GEN
EPA ID No:		MAR000554840				
2nd Name:						
Phone:		617-901-0482				
30	10 of 11	WNW	0.07 / 355.90	209.66 / 16	PAO CORP 560 MAIN ST	RCRA CESQG

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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HUDSON MA 01749

EPA Handler ID: MAR000554840
Gen Status Universe: VSG
Contact Name: JOSEPH PAOLINI
Contact Address: 560 , MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 617-901-0482
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20190418

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190418
Handler Name: PAO CORP
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No: 86
Type: Private	Street 1: HUTCHINSON DR
Name: JOSEPH PAOLINI	Street 2:
Date Became Current: 20190418	City: MARLBOROUGH
Date Ended Current:	State: MA
Phone:	Country: US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:	Notification				Zip Code: 01752	
Owner/Operator Ind:	Current Owner				Street No: 86	
Type:	Private				Street 1: HUTCHINSON DR	
Name:	JOSEPH PAOLINI				Street 2:	
Date Became Current:	20190418				City: MARLBOROUGH	
Date Ended Current:					State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 01752	

[30](#) 11 of 11 **WNW** 0.07 / 355.90 209.66 / 16 **E H PERKINS CONSTRUCTION** **ASBESTOS PROJECT**
560 MAIN ST HUDSON MA

Project ID: 100072342 **Project Start Dt:** 06/02/2008
Form Type: ANF-001 **Project End Dt:** 06/02/2008
Project Type: Rpr
Owner Name: EH PERKINS CONSTRUCTION
Owner address: SAME
DLS Contractor: WINFIELD S HANCOCK & CO INC
DLS Contractor ID: AC000136
Site Supervisor: WINFIELD S. HANCOCK
Site Supervisor ID: AS900113

[31](#) 1 of 10 **WNW** 0.08 / 446.08 208.61 / 15 **ARROW AUTOMOTIVE IND INC** **LAST**
555 MAIN ST HUDSON MA

RTN: 2-0000068 **Phase:** PHASE V
Compliance Status: RAO **Location Type(s):** INDUSTRIAL, PRIVPROP, REPAIRYARD
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** ARROW AUTOMOTIVE IND INC
Compliance Date: 4/20/2001 **Address (BWSC):** 555 MAIN ST
Notification Date: 1/15/1987 **Town (BWSC):** HUDSON
RAO Class: C1 **Zip Code (BWSC):** 01749-0000
Chemical Type: Oil **OFC Town (BWSC):** HUDSON
Reporting Category: NONE **Source(s):** AST, DRUMS, SEPTICTANK
Site Name (EEA Data Portal): ARROW AUTOMOTIVE IND INC
Release Add (EEA Data Portal): 555 MAIN ST
City/Town (EEA Data Portal): HUDSON
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000068>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000068>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: 2-0000068 **Category:** NONE
Current Status: RAO **Phase:** PHASE V
Current Status Desc: Response Action Outcome **RAO Class:** C1
Current Date: 20-Apr-2001 **OHM:** Oil
OFC Notification: 15-Jan-1987
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information

Chemical: VOCS
Amount:
Units:

Action Information

Date: 30-Jul-1999 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 19-Jul-2010 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: SNAUDI
Status Description: Level II - Audit Inspection
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 01-Oct-2014 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 01-Aug-1995 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: TIER1B
Status Description: Tier 1B Classification (retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 29-Jan-2007 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: NPERTN
Status Description: URAM Notification of a Previously Existing RTN
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	04-Dec-2015 C&E				First Name: Last Name:	
		REQACC				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	18-Jul-1985 NOR				First Name: Last Name:	
		Notice of Responsibility				
		ISSUED				
		Correspondence Issued				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	13-Dec-2002 PHASEV				First Name: Last Name:	
		Phase 5				
		APPT1A				
		Tier 1A or Priority Submittal Approved (Retired)				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	04-Jan-2002 PHASEV				First Name: Last Name:	
		Phase 5				
		IMRCD				
		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	11-Feb-2020 PHASEV				First Name: Last Name:	
		Phase 5				
		RMRINT				
		RMR Interim Report Received				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	28-Apr-1998 PHSIII				First Name: Last Name:	
		Phase 3				
		CSRCVD				
		Completion Statement Received				
		C1				
		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	11-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-May-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	02-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINI					
Status Description:	RMR Initial Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jun-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 10-Jan-2019 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 23-Jan-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 18-Feb-2010 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 08-Jun-2010 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 18-Mar-2010 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLFLD
Status Description: Follow-up or Other Field Response
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 10-Jan-2019 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	07-Nov-2017				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NON					
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	27-Apr-1998				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	IHEVAL					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	21-Jun-2001				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	31-Dec-2002				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	22-Dec-2018				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	30-Jan-2007				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	STRCVD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Status or Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	05-Sep-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:					ABCRCO	
Status Description:					As-Built Construction Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	05-Sep-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:					CSRCVD	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	12-Feb-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:					PLANWR	
Status Description:					Written Plan Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	25-Jan-2001				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:					STRCVD	
Status Description:					Status or Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	12-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	19-Dec-2008				First Name:	
Action:	RAO				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	01-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-May-2007				First Name:	
Action:	URAM				Last Name:	
Action Description:	Utility-related Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Jan-2000				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Sep-1997				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	24-Apr-2000				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-May-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Dec-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	13-Mar-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-May-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	02-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Nov-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 15-Jan-1987 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: TCTRNS
Status Description: Valid Transition Site (Retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 31-Mar-2010 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLFLD
Status Description: Follow-up or Other Field Response
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 28-Apr-1998 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 28-Apr-1998 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: PLANWR
Status Description: Written Plan Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 26-Jan-2000 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 09-May-2001 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: APPT1A
Status Description: Tier 1A or Priority Submittal Approved (Retired)
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	24-Feb-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	26-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	25-Apr-2005				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	26-Nov-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	27-Nov-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	24-Feb-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RMRINT	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	20-Aug-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RMRINT	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	13-Oct-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RMRINT	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	23-Jan-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					TSAUD	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Apr-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:					Site Visit or Office Follow-up	
Status:					FOLFLD	
Status Description:					Follow-up or Other Field Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	09-Apr-2010				First Name:	
Action:	RLFA				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Nov-2019				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	01-Aug-1995				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Aug-1994				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	TPNOT					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Aug-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:					First Name:	
Action:	BWS30				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	19-Jul-1985				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Aug-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Mar-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Aug-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Nov-2005				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Nov-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	22-Dec-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	26-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Aug-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Nov-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Nov-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	31-Oct-2017				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 19-Nov-2019 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 01-Aug-1995 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 22-Sep-1998 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: TIER1A
Status Description: Tier 1A Classification (retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 19-Jun-2007 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 29-Jan-2007 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: WORKST
Status Description: Work Started
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: **First Name:**
Action: BWS10 **Last Name:**
Action Description:
Status: APPROV
Status Description:
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	19-Jun-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	03-Feb-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	30-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	07-Aug-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	27-Jun-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	06-Dec-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	18-Dec-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	21-Apr-2020				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	11-Feb-2020				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	PRPMTG					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	23-Mar-2007				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	22-Sep-1998				First Name:	
Action:	TCLASS				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Tier Classification					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	06-Apr-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1A					
Status Description:	Tier 1A Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	01-Sep-1994				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jul-2010				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFVIO					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Feb-2001				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	03-Aug-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	13-Mar-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jun-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Jun-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Oct-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Dec-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 20-Apr-2001 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 06-Dec-2007 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: REVRCD
Status Description: Revised Statement or Transmittal Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 12-Jul-2010 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 21-Sep-2012 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 03-Sep-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 31-Jul-2008 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 29-Jul-2019
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 05-Dec-2012
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

[31](#)

2 of 10

WNW

0.08 /
446.08

208.61 /
15

HUDSON MAIN 555 LLC
555 MAIN ST
HUDSON MA

RELEASE

RTN: 2-0016560
Compliance Date: 3/23/2007
Compliance Status: RTN CLOSED
Compl Status Desc: Release Tracking Number Closed
Notification Date: 1/24/2007
Source: OTHER, UNKNOWN
Reporting Category: 72 HR
Site (EEA Data): HUDSON MAIN 555 LLC
Rel Add(EEA Data): 555 MAIN ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016560>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016560>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class:
Chemical Type: Hazardous Material
Location Type: COMMERCIAL, RESIDENTIAL
Site Name (BWSC): HUDSON MAIN 555 LLC
Address (BWSC): 555 MAIN ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: TETRACHLOROETHYLENE
Amount: 77.3
Units: UG/L

Chemical: 1,1 DICHLOROETHYLENE
Amount: 304
Units: UG/L

Action Information (BWSC)

Status: RTCLSS
Date: 23-Mar-2007
Action: RAONR
Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	24-Jan-2007				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	TIER1B				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	NON				F Name:	
Date:	07-Nov-2017				L Name:	
Action:	C&E					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	23-Mar-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	02-Apr-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	27-Nov-2007				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	26-Feb-2007				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	REVRCD				F Name:	
Date:	22-Sep-1998				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	TCLASS					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TIER1A				F Name:	
Date:	06-Apr-1994				L Name:	
Action:	TCLASS					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	06-Feb-2007				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NAFNVD				F Name:	
Date:	21-Aug-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ASSESS				F Name:	
Date:	24-Jan-2007				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	07-Nov-2017				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	15-Feb-2007				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	23-Mar-2007				L Name:	
Action:	TCLASS					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						

Status: NAFVIO **F Name:**
Date: 19-Jul-2010 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: IHEVAL **F Name:**
Date: 23-Mar-2007 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Imminent Hazard Evaluation Received
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 05-Feb-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 29-Jan-2007 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 30-Jan-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 26-Jan-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 31-Jan-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: TIER1A **F Name:**
Date: 22-Sep-1998 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1A Classification (retired)
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Current Status: Current St Desc: Current Date: OFC Notification: Phase Desc: RAO Class Desc: Other Rela:		RAONR RAO Not Required 23-Mar-2007 24-Jan-2007		Phase: RAO Class: OHM:		Hazardous Material

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EPA Handler ID: MAC300013851
Gen Status Universe: No Report
Contact Name: VINCENT CAMPOBASSO
Contact Address: 3 PARK ST , , LEOMINSTER , MA, 01453-0000 , US
Contact Phone No and Ext: 978-537-0778
Contact Email: VJCAMPOBASSO@VERIZON.NET
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20130311

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20100820
Handler Name: LOWFIELD REALTY GROUP 555 MAIN HUDSON LL
Source Type: Notification
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D039
Waste Code Description: TETRACHLOROETHYLENE
Hazardous Waste Code: D040

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Description: TRICHLOROETHYLENE

Hazardous Waste Code: F002

Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20130311
Handler Name: LOWFIELD REALTY GROUP 555 MAIN HUDSON LL
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	3 PARK ST
Name: LOWFIELD REALTY GROUP 555 MAIN HUDSON LL	Street 2:	
Date Became Current: 20070801	City:	LEOMINSTER
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01453-0000

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	3 PARK ST
Name: LOWFIELD REALTY GROUP 555 MAIN HUDSON LL	Street 2:	
Date Became Current: 20070801	City:	LEOMINSTER
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01453-0000

Historical Handler Details

Receive Dt: 20100820
Generator Code Description: Small Quantity Generator
Handler Name: LOWFIELD REALTY GROUP 555 MAIN HUDSON LL

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EPA Handler ID: MAD001062942
Gen Status Universe: No Report
Contact Name: JOHN PORRAZZO
Contact Address: 555 MAIN ST , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-562-9511
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19800715

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19800715
Handler Name: ARROW AUTOMOTIVE IND
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: F002
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	555 MAIN ST
Name: ARROW AUTOMOTIVE IND	Street 2:	
Date Became Current: 19490301	City:	HUDSON
Date Ended Current: 19910603	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	555 MAIN ST
Name: ARROW AUTOMOTIVE INDUSTRIES INC	Street 2:	
Date Became Current: 20041016	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
			446.08	15	555 MAIN ST HUDSON MA 01749	

EPA Handler ID: MAD121006241
Gen Status Universe: No Report
Contact Name: SITE CONTACT
Contact Address: 555 MAIN ST , , HUDSON , MA, 01749-0000 , US
Contact Phone No and Ext: 978-568-0301
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20010111

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 340(1)(k)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19930914
Scheduled Compliance Date: 19931103
Return to Compliance: Observed
Actual Return to Compl: 19931123
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19931013
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 351(9)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19930914
Scheduled Compliance Date: 19931103
Return to Compliance: Observed
Actual Return to Compl: 19931123
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19931013
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Final Amount:
Paid Amount:

Violation Details

Citation: SR - 522
 Violation Short Description: Generators - General
 Violation Type: 262.A
 Violation Determined Date: 19910620
 Scheduled Compliance Date: 19910816
 Return to Compliance: Observed
 Actual Return to Compl: 19911031
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19910726
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(4)(c)
 Violation Short Description: Generators - General
 Violation Type: 262.A
 Violation Determined Date: 19910620
 Scheduled Compliance Date: 19910816
 Return to Compliance: Observed
 Actual Return to Compl: 19911031
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19910726
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 061(2)(b)
 Violation Short Description: Generators - General
 Violation Type: 262.A
 Violation Determined Date: 19910620
 Scheduled Compliance Date: 19910816
 Return to Compliance: Observed
 Actual Return to Compl: 19911031
 Violation Responsible Agency: State

Enforcement Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19910726
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 516(1)(d)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19910620
Scheduled Compliance Date: 19910816
Return to Compliance: Observed
Actual Return to Compl: 19911031
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19910726
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 524(2)(f)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19910620
Scheduled Compliance Date: 19910816
Return to Compliance: Observed
Actual Return to Compl: 19911031
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19910726
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19890822
Scheduled Compliance Date:

Return to Compliance: Observed
Actual Return to Compl: 19911031
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19910726
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: LDR - General
Violation Type: 268.A
Violation Determined Date: 19890822
Scheduled Compliance Date:
Return to Compliance: Observed
Actual Return to Compl: 19911028
Violation Responsible Agency: State

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19860717
Scheduled Compliance Date: 19860815
Return to Compliance: Observed
Actual Return to Compl: 19861107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19860718
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19860516
Scheduled Compliance Date: 19860613
Return to Compliance: Observed
Actual Return to Compl: 19861107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19860516
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19860205
Scheduled Compliance Date: 19860221
Return to Compliance: Observed
Actual Return to Compl: 19861107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19860206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 19931122
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19930914
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 19931123
Evaluation Agency: State

Evaluation Start Date: 19911031
Evaluation Type Description: FOLLOW-UP INSPECTION
Violation Short Description: Generators - General
Return to Compliance Date: 19911031
Evaluation Agency: State

Evaluation Start Date: 19910620
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19911031
Evaluation Agency: State

Evaluation Start Date: 19890822
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: LDR - General
Return to Compliance Date: 19911028
Evaluation Agency: State

Evaluation Start Date: 19890822
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19911031
Evaluation Agency: State

Evaluation Start Date: 19880301
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19861107
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19861107
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19860717
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description: Generators - General
Return to Compliance Date: 19861107
Evaluation Agency: State

Evaluation Start Date: 19860516
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description: Generators - General
Return to Compliance Date: 19861107
Evaluation Agency: State

Evaluation Start Date: 19860205
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19861107
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860418
Handler Name: RR DONNELLY & SONS CO
Source Type: Notification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19900301
Handler Name: R R DONNELLEY & SONS
Source Type: Annual/Biennial Report
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19920101
Handler Name: R.R. DONNELLY & SONS CO
Source Type: Annual/Biennial Report
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19920630
Handler Name: RR DONNELLY & SONS CO
Source Type: Notification
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20010111
Handler Name: RR DONNELLY & SONS CO
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 555 MAIN ST
Name: RR DONNELLEY & SONS	Street 2:
Date Became Current: 19911208	City: HUDSON
Date Ended Current: 20010111	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	555 MAIN ST
Name:	RR DONNELLY & SONS CO	Street 2:	
Date Became Current:	19860418	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	555 MAIN ST
Name:	DONNELLEY R R & SONS CO	Street 2:	
Date Became Current:	20041016	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	555 MAIN ST
Name:	RR DONNELLY & SONS CO	Street 2:	
Date Became Current:	19860418	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Historical Handler Details

Receive Dt:	19920630
Generator Code Description:	Small Quantity Generator
Handler Name:	RR DONNELLY & SONS CO

Receive Dt:	19920101
Generator Code Description:	Large Quantity Generator
Handler Name:	R.R. DONNELLY & SONS CO

Receive Dt:	19900301
Generator Code Description:	Large Quantity Generator
Handler Name:	R R DONNELLEY & SONS

Receive Dt:	19860418
Generator Code Description:	Large Quantity Generator
Handler Name:	RR DONNELLY & SONS CO

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RTN:	2-0000068
Primary ID:	2-0000068
Compliance Status:	
Current Status:	RAO
Current Status Desc:	Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date:	4/20/2001
RAO Class:	C1
RAO Class Desc:	Temporary Solution where achievement of a Permanent Solution is not currently feasible
Chemical Type:	
Release Type:	RAO
Location Type:	INDUSTRIAL,REPAIRYARD,PRIVPROP
Category:	NONE
Initial Status Date:	8/4/1995
Notification Date:	1/15/1987
Source:	AST,DRUMS,SEPTICTANK
Additional Files URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0000068
Phase:	PHASE V
Phase Desc:	Operation, Maintenance, and/or Monitoring. During Phase V, long-term treatment processes are implemented and

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Office Town:					monitored to track cleanup progress HUDSON	
<u>Actions</u>						
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					2/13/2013	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					11/14/2005	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					RAO	
Status:					RMRINT	
RAO Class:					C1	
Date:					2/13/2013	
Status Description:					RMR Interim Report Received	
Action:					PHASII	
Status:					CSRCVD	
RAO Class:					C1	
Date:					9/24/1997	
Status Description:					Completion Statement Received	
Action:					PHASIV	
Status:					PLANWR	
RAO Class:					C1	
Date:					2/12/2001	
Status Description:					Written Plan Received	
Action:					RAO	
Status:					APPT1A	
RAO Class:					C1	
Date:					5/9/2001	
Status Description:					Tier 1A or Priority Submittal Approved (Retired)	
Action:					TCLASS	
Status:					TIER1B	
RAO Class:					C1	
Date:					8/1/1995	
Status Description:					Tier 1B Classification (retired)	
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					11/27/2006	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					NOR	
Status:					ISSUED	
RAO Class:					C1	
Date:					1/27/2000	
Status Description:					Correspondence Issued	
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					12/19/2008	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					RAO	
Status:					TSAUD	
RAO Class:					C1	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
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RAO Class:						
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Status Description:						
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RAO Class:						
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RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						
Action:						
Status:						
RAO Class:						
Date:						
Status Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		RAO				
Status:		TSAUD				
RAO Class:		C1				
Date:		1/23/2009				
Status Description:		Level I - Technical Screen Audit				
Action:		RLFA				
Status:		FOLFLD				
RAO Class:		C1				
Date:		3/31/2010				
Status Description:		Follow-up or Other Field Response				
Action:		PHASEV				
Status:		IMRCD				
RAO Class:		C1				
Date:		4/28/1998				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		12/18/2009				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		9/21/2012				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		AUDCOM				
Status:		NAFVIO				
RAO Class:		C1				
Date:		7/19/2010				
Status Description:		NAFVIO				
Action:		PHSIII				
Status:		CSRCVD				
RAO Class:		C1				
Date:		4/24/2000				
Status Description:		Completion Statement Received				
Action:		RAO				
Status:		TSAUD				
RAO Class:		C1				
Date:		11/7/2017				
Status Description:		Level I - Technical Screen Audit				
Action:		TCLASS				
Status:		REVRCD				
RAO Class:		C1				
Date:		9/22/1998				
Status Description:		Revised Statement or Transmittal Received				
Action:		PHASEV				
Status:		IMRCD				
RAO Class:		C1				
Date:		12/31/2002				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		TSAUD				
RAO Class:		C1				
Date:		7/20/2010				
Status Description:		Level I - Technical Screen Audit				
Action:		PHASEV				
Status:		STRCVD				
RAO Class:		C1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:			1/30/2007			
Status Description:			Status or Interim Report Received			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			12/6/2007			
Status Description:			RMR Interim Report Received			
Action:			RLFA			
Status:			FLDRUN			
RAO Class:			C1			
Date:			7/31/2008			
Status Description:			Compliance Field Response - Unannounced			
Action:			RLFA			
Status:			FOLFLD			
RAO Class:			C1			
Date:			4/1/2010			
Status Description:			Follow-up or Other Field Response			
Action:			TCLASS			
Status:			PEREFF			
RAO Class:			C1			
Date:			8/1/1995			
Status Description:			Permit Effective Date (retired)			
Action:			RLFA			
Status:			FLDRUN			
RAO Class:			C1			
Date:			6/8/2010			
Status Description:			Compliance Field Response - Unannounced			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			7/12/2010			
Status Description:			RMR Interim Report Received			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			10/13/2011			
Status Description:			RMR Interim Report Received			
Action:			RAO			
Status:			TSEVAL			
RAO Class:			C1			
Date:			11/27/2006			
Status Description:			Periodic Review Opinion Evaluating Temporary Solution			
Action:			URAM			
Status:			NPERTN			
RAO Class:			C1			
Date:			1/29/2007			
Status Description:			URAM Notification of a Previously Existing RTN			
Action:			PHASEV			
Status:			IMRCD			
RAO Class:			C1			
Date:			1/4/2002			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			9/2/2016			
Status Description:			RMR Interim Report Received			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		C&E				
Status:		NON				
RAO Class:		C1				
Date:		11/7/2017				
Status Description:		NON				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		9/2/2016				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		TCLASS				
Status:		RECPT				
RAO Class:		C1				
Date:		8/1/1995				
Status Description:		Transmittal, Notice, or Notification Received				
Action:		BWS30				
Status:		APPROV				
RAO Class:		C1				
Date:						
Status Description:		APPROV				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		6/19/2009				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		REVRCD				
RAO Class:		C1				
Date:		12/6/2007				
Status Description:		Revised Statement or Transmittal Received				
Action:		PHASEV				
Status:		IMRCD				
RAO Class:		C1				
Date:		6/19/2003				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		10/13/2011				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		C&E				
Status:		REQACC				
RAO Class:		C1				
Date:		12/4/2015				
Status Description:		REQACC				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C1				
Date:		9/24/2015				
Status Description:		RMR Interim Report Received				
Action:		TREGS				
Status:		TPNOT				
RAO Class:		C1				
Date:		8/15/1994				
Status Description:		TPNOT				
Action:		PHASIV				
Status:		CSRCVD				
RAO Class:		C1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:					9/5/2001	
Status Description:					Completion Statement Received	
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					4/25/2005	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					RAO	
Status:					RMRINT	
RAO Class:					C1	
Date:					5/11/2011	
Status Description:					RMR Interim Report Received	
Action:					RAO	
Status:					SNAUDI	
RAO Class:					C1	
Date:					7/19/2010	
Status Description:					Level II - Audit Inspection	
Action:					RAO	
Status:					IMRCD	
RAO Class:					C1	
Date:					2/24/2012	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
Action:					RAO	
Status:					RMRINI	
RAO Class:					C1	
Date:					5/30/2007	
Status Description:					RMR Initial Report Received	
Action:					RAO	
Status:					RMRINT	
RAO Class:					C1	
Date:					6/27/2008	
Status Description:					RMR Interim Report Received	
Action:					RAO	
Status:					TSAUD	
RAO Class:					C1	
Date:					1/23/2007	
Status Description:					Level I - Technical Screen Audit	
Action:					TCLASS	
Status:					TIER1A	
RAO Class:					C1	
Date:					4/6/1994	
Status Description:					Tier 1A Classification (retired)	
Action:					RAO	
Status:					RMRINT	
RAO Class:					C1	
Date:					9/21/2012	
Status Description:					RMR Interim Report Received	
Action:					URAM	
Status:					STRCVD	
RAO Class:					C1	
Date:					5/30/2007	
Status Description:					Status or Interim Report Received	
Action:					PHASIV	
Status:					ABCRCO	
RAO Class:					C1	
Date:					9/5/2001	
Status Description:					As-Built Construction Report Received	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		RAM				
Status:		PLANMD				
RAO Class:		C1				
Date:		8/11/2000				
Status Description:		Modified Revised or Updated Plan Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:		C1				
Date:		8/3/1998				
Status Description:		Status or Interim Report Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		9/24/2015				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASEV				
Status:		APPT1A				
RAO Class:		C1				
Date:		12/13/2002				
Status Description:		Tier 1A or Priority Submittal Approved (Retired)				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C1				
Date:		8/20/2014				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		8/20/2014				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		11/16/2004				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		IRA				
Status:		IHEVAL				
RAO Class:		C1				
Date:		4/27/1998				
Status Description:		Imminent Hazard Evaluation Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:		C1				
Date:		1/26/2000				
Status Description:		Status or Interim Report Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C1				
Date:		3/26/2014				
Status Description:		RMR Interim Report Received				
Action:		RLFA				
Status:		FOLFLD				
RAO Class:		C1				
Date:		3/18/2010				
Status Description:		Follow-up or Other Field Response				
Action:		RLFA				
Status:		FOLOFF				
RAO Class:		C1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:			12/5/2012			
Status Description:			Follow-up Office Response			
Action:			RAO			
Status:			IMRCD			
RAO Class:			C1			
Date:			6/27/2008			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
Action:			AUDCOM			
Status:			NAFNVD			
RAO Class:			C1			
Date:			8/21/2008			
Status Description:			NAFNVD			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			6/19/2009			
Status Description:			RMR Interim Report Received			
Action:			RAO			
Status:			IMRCD			
RAO Class:			C1			
Date:			5/30/2007			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
Action:			RAO			
Status:			IMRCD			
RAO Class:			C1			
Date:			11/26/2003			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			12/18/2009			
Status Description:			RMR Interim Report Received			
Action:			RLFA			
Status:			FOLOFF			
RAO Class:			C1			
Date:			4/9/2010			
Status Description:			Follow-up Office Response			
Action:			RAO			
Status:			TSAUD			
RAO Class:			C1			
Date:			9/3/2009			
Status Description:			Level I - Technical Screen Audit			
Action:			TCLASS			
Status:			TIER1A			
RAO Class:			C1			
Date:			9/22/1998			
Status Description:			Tier 1A Classification (retired)			
Action:			NOR			
Status:			ISSUED			
RAO Class:			C1			
Date:			7/18/1985			
Status Description:			Correspondence Issued			
Action:			RAO			
Status:			RMRINT			
RAO Class:			C1			
Date:			2/24/2012			
Status Description:			RMR Interim Report Received			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		RAO				
Status:		RMRINT				
RAO Class:		C1				
Date:		3/13/2015				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C1				
Date:		12/19/2008				
Status Description:		RMR Interim Report Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:		C1				
Date:		1/25/2001				
Status Description:		Status or Interim Report Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		5/11/2011				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASEV				
Status:		IMRCD				
RAO Class:		C1				
Date:		6/21/2001				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAM				
Status:		PLANWR				
RAO Class:		C1				
Date:		3/27/1998				
Status Description:		Written Plan Received				
Action:		AUDCOM				
Status:		NAFNVD				
RAO Class:		C1				
Date:		9/1/1994				
Status Description:		NAFNVD				
Action:		RAM				
Status:		PLANWR				
RAO Class:		C1				
Date:		4/28/1998				
Status Description:		Written Plan Received				
Action:		RAM				
Status:		CSRCVD				
RAO Class:		C1				
Date:		2/12/2001				
Status Description:		Completion Statement Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:		C1				
Date:		2/3/1999				
Status Description:		Status or Interim Report Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:		C1				
Date:		7/30/1999				
Status Description:		Status or Interim Report Received				
Action:		RAO				
Status:		TSAUD				
RAO Class:		C1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 10/1/2014
Status Description: Level I - Technical Screen Audit

Action: TCLASS
Status: LNKVIC
RAO Class: C1
Date: 3/23/2007
Status Description: RTN Linked to TCLASS Via IRA Completion Statement

Action: URAM
Status: WORKST
RAO Class: C1
Date: 1/29/2007
Status Description: Work Started

Action: BWS10
Status: APPROV
RAO Class: C1
Date:
Status Description: APPROV

Action: RAO
Status: RAORCD
RAO Class: C1
Date: 4/20/2001
Status Description: RAO Statement Received (retired)

Action: RAO
Status: IMRCD
RAO Class: C1
Date: 8/7/2013
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Chemical Information

Chemical: VOCS
Amount:
Unit:

LSP Information

LSP: 9997
Name: IRWIN, J ANDREW

LSP: 6508
Name: DOHERTY, RICHARD E

LSP: 3675
Name: ACHILLES, REGINALD H

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 11/07/2017
RAO Class: C1
Activity Use Limitation: NONE

Response Action Type: PHASIV Phase 4
Status: CSRCVD Completion Statement Received
Submittal Date: 09/05/2001
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:					IHEVAL Imminent Hazard Evaluation Received	
Submittal Date:					04/27/1998	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					RAM Release Abatement Measure	
Status:					CSRCVD Completion Statement Received	
Submittal Date:					02/12/2001	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					REL Potential Release or Threat of Release	
Status:					TCTRNS Tier Classified Transition Sites	
Submittal Date:					01/15/1987	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					PHSIII Phase 3	
Status:					CSRCVD Completion Statement Received	
Submittal Date:					04/24/2000	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					URAM Utility-related Abatement Measure	
Status:					CSRCVD Completion Statement Received	
Submittal Date:					06/19/2007	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					TCLASS Tier Classification	
Status:					LNKVIC RTN Linked to TCLASS Via IRA Completion Statement	
Submittal Date:					03/23/2007	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					RAM Release Abatement Measure	
Status:					PLANWR Written Plan Received	
Submittal Date:					03/27/1998	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					PHASEV Phase 5	
Status:					STRCVD Status or Interim Report Received	
Submittal Date:					01/30/2007	
RAO Class:						
Activity Use Limitation:						
Response Action Type:					PHASII Phase 2	
Status:					CSRCVD Completion Statement Received	
Submittal Date:					09/24/1997	
RAO Class:						
Activity Use Limitation:						

RAO Information

Class: C1
Method: 3
GW Category: 1
Soil Category: 1

Tier Classification Details

RTN Total: 582
NRS II: 335
NRS III: 137
NRS IV: 110
NRS V: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
NRS VI:		0				
Zone 2:		N				
Imminent Hazard:		N				
<u>Location Information</u>						
Location:		INDUSTRIAL				
Location:		PRIVPROP				
Location:		REPAIRYARD				
<u>Source Information</u>						
Source:		AST				
Source:		DRUMS				
Source:		SEPTICTANK				

31	7 of 10	WNW	0.08 / 446.08	208.61 / 15	HUDSON MAIN 555 LLC 555 MAIN ST HUDSON MA 01749-0000	SPILLS
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RTN: 2-0016560
Primary ID: 2-0000068
Compliance Status:
Current Status: RAONR
Current Status Desc: RTN Closed: Future response actions addressing the release associated with this Release Tracking Number (RTN) will be conducted as part of the response actions planned for the site under another "primary" RTN
Current Date: 3/23/2007
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: RTN CLOSED
Location Type: COMMERCIAL,RESIDENTIAL
Category: 72 HR
Initial Status Date: 1/24/2008
Notification Date: 1/24/2007
Source: UNKNOWN,OTHER
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0016560
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: REL
Status: REPORT
RAO Class:
Date: 1/24/2007
Status Description: Reportable Release under MGL 21E

Action: NOR
Status: ISSUED
RAO Class:
Date: 2/26/2007
Status Description: Correspondence Issued

Action: RNF
Status: REPORT
RAO Class:
Date: 1/29/2007
Status Description: Reportable Release under MGL 21E

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		TCLASS				
Status:		PEREFF				
RAO Class:						
Date:		8/1/1995				
Status Description:		Permit Effective Date (retired)				
Action:		RLFA				
Status:		FOLOFF				
RAO Class:						
Date:		2/5/2007				
Status Description:		Follow-up Office Response				
Action:		IRA				
Status:		IHEVAL				
RAO Class:						
Date:		3/23/2007				
Status Description:		Imminent Hazard Evaluation Received				
Action:		RLFA				
Status:		FOLOFF				
RAO Class:						
Date:		1/30/2007				
Status Description:		Follow-up Office Response				
Action:		TCLASS				
Status:		TIER1B				
RAO Class:						
Date:		8/1/1995				
Status Description:		Tier 1B Classification (retired)				
Action:		TCLASS				
Status:		TIER1A				
RAO Class:						
Date:		9/22/1998				
Status Description:		Tier 1A Classification (retired)				
Action:		TCLASS				
Status:		REVRCD				
RAO Class:						
Date:		9/22/1998				
Status Description:		Revised Statement or Transmittal Received				
Action:		IRA				
Status:		ASSESS				
RAO Class:						
Date:		1/24/2007				
Status Description:		IRA Assessment Only				
Action:		TCLASS				
Status:		LNKVIC				
RAO Class:						
Date:		3/23/2007				
Status Description:		RTN Linked to TCLASS Via IRA Completion Statement				
Action:		RAO				
Status:		TSAUD				
RAO Class:						
Date:		11/7/2017				
Status Description:		Level I - Technical Screen Audit				
Action:		RAONR				
Status:		RTCLSS				
RAO Class:						
Date:		3/23/2007				
Status Description:		Linked to a Tier Classified Site				
Action:		TCLASS				
Status:		TIER1A				
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:			4/6/1994			
Status Description:			Tier 1A Classification (retired)			
Action:			TCLASS			
Status:			RECPT			
RAO Class:						
Date:			8/1/1995			
Status Description:			Transmittal, Notice, or Notification Received			
Action:			C&E			
Status:			NON			
RAO Class:						
Date:			11/7/2017			
Status Description:			NON			
Action:			RLFA			
Status:			FOLOFF			
RAO Class:						
Date:			1/31/2007			
Status Description:			Follow-up Office Response			
Action:			RLFA			
Status:			FOLOFF			
RAO Class:						
Date:			1/26/2007			
Status Description:			Follow-up Office Response			
Action:			NOR			
Status:			ALSENT			
RAO Class:						
Date:			11/27/2007			
Status Description:			Anniversary Letter Sent			
Action:			AUDCOM			
Status:			NAFNVD			
RAO Class:						
Date:			8/21/2008			
Status Description:			NAFNVD			
Action:			IRA			
Status:			CSRCVD			
RAO Class:						
Date:			3/23/2007			
Status Description:			Completion Statement Received			
Action:			IRA			
Status:			TSAUD			
RAO Class:						
Date:			4/2/2007			
Status Description:			Level I - Technical Screen Audit			
Action:			RLFA			
Status:			FOLOFF			
RAO Class:						
Date:			2/6/2007			
Status Description:			Follow-up Office Response			
Action:			RLFA			
Status:			FOLOFF			
RAO Class:						
Date:			2/15/2007			
Status Description:			Follow-up Office Response			
Action:			AUDCOM			
Status:			NAFVIO			
RAO Class:						
Date:			7/19/2010			
Status Description:			NAFVIO			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information

Chemical: TETRACHLOROETHYLENE
Amount: 77.3
Unit: UG/L

Chemical: 1,1 DICHLOROETHYLENE
Amount: 304
Unit: UG/L

LSP Information

LSP: 9997
Name: IRWIN, J ANDREW

Response Action Information

Response Action Type: TCLASS Tier Classification
Status: LNKVIC RTN Linked to TCLASS Via IRA Completion Statement
Submittal Date: 03/23/2007
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/29/2007
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 04/02/2007
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 11/07/2017
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/24/2007
RAO Class:
Activity Use Limitation:

Response Action Type: RAONR RAO Not Required
Status: RTCLSS Linked to a Tier Classified Site
Submittal Date: 03/23/2007
RAO Class:
Activity Use Limitation:

Tier Classification Details

RTN Total: 582
NRS II: 335
NRS III: 137
NRS IV: 110
NRS V: 0
NRS VI: 0
Zone 2: N
Imminent Hazard: N

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Location Information

Location: COMMERCIAL

Location: RESIDENTIAL

Source Information

Source: UNKNOWN

Source: OTHER

31	8 of 10	WNW	0.08 / 446.08	208.61 / 15	ARROW AUTOMOTIVE IND INC 555 MAIN ST HUDSON MA	LUST
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RTN:	2-0000068	Phase:	PHASE V
Compliance Status:	RAO	Location Type(s):	INDUSTRIAL, PRIVPROP, REPAIRYARD
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	ARROW AUTOMOTIVE IND INC
Compliance Date:	4/20/2001	Address (BWSC):	555 MAIN ST
Notification Date:	1/15/1987	Town (BWSC):	HUDSON
RAO Class:	C1	Zip Code (BWSC):	01749-0000
Chemical Type:	Oil	OFC Town (BWSC):	HUDSON
Reporting Category:	NONE	Source(s):	AST, DRUMS, SEPTICTANK
Site Name (EEA Data Portal):	ARROW AUTOMOTIVE IND INC		
Release Add (EEA Data Portal):	555 MAIN ST		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000068		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000068		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:	2-0000068	Category:	NONE
Current Status:	RAO	Phase:	PHASE V
Current Status Desc:	Response Action Outcome	RAO Class:	C1
Current Date:	20-Apr-2001	OHM:	Oil
OFC Notification:	15-Jan-1987		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Other Rela:

Chemical Information

Chemical: VOCS
Amount:
Units:

Action Information

Date:	07-Aug-2013	First Name:	
Action:	RAO	Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jun-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Aug-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Dec-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Feb-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	27-Jun-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Oct-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Apr-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Feb-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	20-Nov-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-May-2007				First Name:	
Action:	URAM				Last Name:	
Action Description:	Utility-related Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Apr-1998				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	IHEVAL					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Jul-1985				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Feb-2001				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 11-May-2011 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 30-Jan-2007 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 05-Sep-2001 **First Name:**
Action: PHASIV **Last Name:**
Action Description: Phase 4
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 28-Apr-1998 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: PLANWR
Status Description: Written Plan Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 09-May-2001 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: APPT1A
Status Description: Tier 1A or Priority Submittal Approved (Retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 01-Jun-2018 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	30-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINI					
Status Description:	RMR Initial Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	26-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	13-Feb-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	18-May-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	16-Nov-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	20-Apr-2001				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RAORCD	
Status Description:					RAO Statement Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	06-Dec-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RMRINT	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	27-Nov-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					TSEVAL	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	31-Jul-2008				First Name:	
Action:	RLFA				Last Name:	
Action Description:					Site Visit or Office Follow-up	
Status:					FLDRUN	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Apr-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:					Site Visit or Office Follow-up	
Status:					FOLFLD	
Status Description:					Follow-up or Other Field Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Aug-1995				First Name:	
Action:	TCLASS				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Feb-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Nov-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	10-Jan-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	01-Oct-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	01-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Jan-1987				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jul-2019				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	27-Mar-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	26-Jan-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Dec-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Nov-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jan-2007				First Name:	
Action:	URAM				Last Name:	
Action Description:	Utility-related Abatement Measure					
Status:	NPERTN					
Status Description:	URAM Notification of a Previously Existing RTN					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Dec-2002				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	APPT1A					
Status Description:	Tier 1A or Priority Submittal Approved (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 04-Jan-2002
Action: PHASEV
Action Description: Phase 5
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 21-Jun-2001
Action: PHASEV
Action Description: Phase 5
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 25-Jan-2001
Action: RAM
Action Description: Release Abatement Measure
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 27-Jun-2008
Action: RAO
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 19-Dec-2008
Action: RAO
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

First Name:
Last Name:

Date: 13-Mar-2015
Action: RAO
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1

First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	21-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	23-Jan-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	05-Dec-2012				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	11-Feb-2020				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	PRPMTG					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Sep-1994				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	20-Aug-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	01-Jun-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	27-Jan-2000				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	28-Apr-1998				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	26-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	19-Jun-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	11-Jun-2018				First Name:	
Action:	RAO				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	08-Jun-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Apr-2020				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Sep-1998				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1A					
Status Description:	Tier 1A Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Aug-2008				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jul-2010				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFVIO					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	28-Apr-1998				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	19-Jun-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Dec-2018				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Aug-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	31-Mar-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLFLD					
Status Description:	Follow-up or Other Field Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	06-Apr-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1A					
Status Description:	Tier 1A Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:					First Name:	
Action:	BWS10				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	05-Sep-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	ABCRCO					
Status Description:	As-Built Construction Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Apr-2000				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-Jul-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Aug-1994				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	TPNOT					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 25-Apr-2005 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 19-Jul-2010 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: SNAUDI
Status Description: Level II - Audit Inspection
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 03-Sep-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 31-Oct-2017 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 19-Jun-2007 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: **First Name:**
Action: BWS30 **Last Name:**
Action Description:
Status: APPROV
Status Description:
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	04-Dec-2015				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	REQACC					
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	19-Jul-1985				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	24-Feb-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	23-Jan-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	19-Nov-2019				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	22-Sep-1998				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	REVRCD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Revised Statement or Transmittal Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	31-Dec-2002				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	24-Sep-1997				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:					CSRCVD	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	03-Aug-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:					STRCVD	
Status Description:					Status or Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	30-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	02-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	14-Nov-2005				First Name:	
Action:	RAO				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	26-Nov-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-May-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Dec-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Mar-2010				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLFLD					
Status Description:	Follow-up or Other Field Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	10-Jan-2019				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	01-Aug-1995				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1B					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jan-2007				First Name:	
Action:	URAM				Last Name:	
Action Description:	Utility-related Abatement Measure					
Status:	WORKST					
Status Description:	Work Started					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Feb-2020				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Dec-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Nov-2019				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	23-Mar-2007				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Date:	01-Aug-1995				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Nov-2017				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NON					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	03-Feb-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Oct-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	06-Dec-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Aug-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 02-Sep-2016
Action: RAO
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

31	9 of 10	WNW	0.08 / 446.08	208.61 / 15	ARROW AUTOMOTIVE IND INC 555 MAIN ST HUDSON MA	RELEASE
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RTN: 2-0000068
Compliance Date: 4/20/2001
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 1/15/1987
Source: AST, DRUMS, SEPTICTANK
Reporting Category: NONE
Site (EEA Data): ARROW AUTOMOTIVE IND INC
Rel Add(EEA Data): 555 MAIN ST
Town (EEA Data): HUDSON
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000068>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000068>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: VOCs
Amount:
Units:

Action Information (BWSC)

Status: APPROV
Date:
Action: BWS10
Action Description:
Status Description:
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: PLANWR
Date: 12-Feb-2001
Action: PHASIV
Action Description: Phase 4
Status Description: Written Plan Received

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	STRCVD				F Name:	
Date:	26-Jan-2000				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	11-May-2011				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	22-Dec-2018				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	13-Mar-2015				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	11-May-2011				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	24-Sep-2015				L Name:	
Action:	RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSEVAL				F Name:	
Date:	01-Jun-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDRUN				F Name:	
Date:	31-Oct-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FOLFLD				F Name:	
Date:	31-Mar-2010				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up or Other Field Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FOLOFF				F Name:	
Date:	21-Apr-2020				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS30					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	22-Dec-2018 PHASEV				L Name:	
						Phase 5 RMR Interim Report Received C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	CSRCVD 28-Apr-1998 PHSIII				F Name: L Name:	
						Phase 3 Completion Statement Received C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 25-Jan-2001 RAM				F Name: L Name:	
						Release Abatement Measure Status or Interim Report Received C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 03-Feb-1999 RAM				F Name: L Name:	
						Release Abatement Measure Status or Interim Report Received C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 03-Aug-1998 RAM				F Name: L Name:	
						Release Abatement Measure Status or Interim Report Received C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 12-Jul-2010 RAO				F Name: L Name:	
						Response Action Outcome -RAO Post-RAO C Status Report Received (Ph V-prior to 05 only) C1 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:	REVRCD				F Name:	
Date:	06-Dec-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	26-Mar-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	10-Jan-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	13-Feb-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	03-Sep-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	01-Oct-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSAUD				F Name:	
Date:	07-Nov-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDRUN				F Name:	
Date:	31-Jul-2008				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RECPT				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	REVRCD				F Name:	
Date:	22-Sep-1998				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Revised Statement or Transmittal Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	28-Apr-1998				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	21-Jun-2001				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	11-Feb-2020				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	05-Sep-2001				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	12-Feb-2001				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	30-May-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	07-Aug-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINI				F Name:	
Date:	30-May-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Initial Report Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	13-Feb-2013				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	24-Feb-2012				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	12-Jul-2010				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	TCTRNS				F Name:	
Date:	15-Jan-1987				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Valid Transition Site (Retired)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	NAFVIO				F Name:	
Date:	19-Jul-2010				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IHEVAL				F Name:	
Date:	27-Apr-1998				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Immediate Response Action	
Status Description:					Imminent Hazard Evaluation Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ISSUED				F Name:	
Date:	18-Jul-1985				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ISSUED				F Name:	
Date:	19-Jul-1985				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APPT1A				F Name:	
Date:	13-Dec-2002				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Tier 1A or Priority Submittal Approved (Retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	04-Jan-2002				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	19-Jun-2003				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PLANWR				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	27-Mar-1998 RAM				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 13-Feb-2013 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 14-Nov-2005 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 19-Dec-2008 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 27-Jun-2008 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 06-Dec-2007 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	TSAUD				F Name:	
Date:	23-Jan-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSEVAL				F Name:	
Date:	27-Nov-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	FOLFLD				F Name:	
Date:	18-Mar-2010				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	FOLFLD				F Name:	
Date:	01-Apr-2010				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	FOLOFF				F Name:	
Date:	19-Nov-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PRPMTG				F Name:	
Date:	11-Feb-2020				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TIER1A				F Name:	
Date:	06-Apr-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1A Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TPNOT				F Name:	
Date:	15-Aug-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	NON				F Name:	
Date:	07-Nov-2017				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	STRCVD				F Name:	
Date:	30-Jan-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	24-Apr-2000				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	11-Feb-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	24-Feb-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	25-Apr-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	27-Jun-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	24-Sep-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	27-Nov-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	19-Jun-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	20-Aug-2014				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	19-Dec-2008				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	TSAUD				F Name:	
Date:	23-Jan-2007				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	TSAUD				F Name:	
Date:	18-Feb-2010				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	TSAUD				F Name:	
Date:	11-Jun-2018				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	FOLOFF				F Name:	
Date:	10-Jan-2019				L Name:	
Action:	RLFA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FOLOFF				F Name:	
Date:	05-Dec-2012				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	19-Jun-2007				L Name:	
Action:	URAM					
Action Description:					Utility-related Abatement Measure	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	WORKST				F Name:	
Date:	29-Jan-2007				L Name:	
Action:	URAM					
Action Description:					Utility-related Abatement Measure	
Status Description:					Work Started	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	24-Sep-1997				L Name:	
Action:	PHASII					
Action Description:					Phase 2	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ABCRCV				F Name:	
Date:	05-Sep-2001				L Name:	
Action:	PHASIV					
Action Description:					Phase 4	
Status Description:					As-Built Construction Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	20-Aug-2014 RAO				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RAORCD 20-Apr-2001 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 07-Aug-2013 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 29-Jul-2019 RLFA				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 12-Nov-2019 RLFA				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TIER1A 22-Sep-1998 TCLASS				F Name: L Name:	

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:	TIER1B				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	STRCVD				F Name:	
Date:	30-May-2007				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	NAFNVD				F Name:	
Date:	21-Aug-2008				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	31-Dec-2002				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANMD				F Name:	
Date:	11-Aug-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANWR				F Name:	
Date:	28-Apr-1998				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	STRCVD				F Name:	
Date:	30-Jul-1999				L Name:	
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Status or Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APPT1A				F Name:	
Date:	09-May-2001				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Tier 1A or Priority Submittal Approved (Retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	26-Mar-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	18-May-2004				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	19-Jun-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Oct-2011				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Nov-2004				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	18-Dec-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	02-Sep-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	21-Sep-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	18-Dec-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	SNAUDI				F Name:	
Date:	19-Jul-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level II - Audit Inspection					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	PEREFF				F Name:	
Date:	01-Aug-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	NPERTN				F Name:	
Date:	29-Jan-2007				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	URAM Notification of a Previously Existing RTN					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	NAFNVD				F Name:	
Date:	01-Sep-1994				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	REQACC				F Name:	
Date:	04-Dec-2015				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	ISSUED				F Name:	
Date:	27-Jan-2000				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	13-Mar-2015				L Name:	
Action:	RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	01-Jun-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	02-Sep-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	21-Sep-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	26-Nov-2003				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	01-Jun-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	13-Oct-2011 RAO				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 20-Jul-2010 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 20-Nov-2012 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FLDRUN 08-Jun-2010 RLFA				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 09-Apr-2010 RLFA				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	LNVIC 23-Mar-2007 TCLASS				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID: 2-0000068 **Category:** NONE
Current Status: RAO **Phase:** PHASE V
Current St Desc: Response Action Outcome **RAO Class:** C1
Current Date: 20-Apr-2001 **OHM:** Oil
OFC Notification: 15-Jan-1987
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Other Rela:

31	10 of 10	WNW	0.08 / 446.08	208.61 / 15	Arrow Automotive Ind Inc 555 Main St Hudson MA	BROWNFIELDS
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RTN: 2-0000068 **Rao:** C1
Other RTNs: **Aul:** No
Map Par ID: 34_28 **Cocs:** VOCs
Loc ID: M_199248_904361 **Former Use:** Industrial, Private Property, Repair Yard
MCP Status: RAO **Current Use:** Light Industrial
Site Name(MassDEP): Arrow Automotive Ind Inc **Total Acreage:** 8.58
Address (MassDEP): 555 Main St **Shape Le:** 798.211993397
City (MassDEP): Hudson **Shape Ar:** 33611.2156842
Site Name (CERO): ARROW AUTOMOTIVE IND INC **Acres:** 8.30551227349
Address (CERO): 555 MAIN ST **Shape Are:** 61658.234375
City (CERO): HUDSON **Shape Len:** 1080.90317848
Data Source: MassDEP Brownfields List; MassDEP CERO
 Brownfields GIS Tool
Current Owner: Lowfield Realty Group 555 Main St Hudson
Fact Sheet: <http://massdep.org/CERO/2-0000068.pdf>

32	1 of 2	WNW	0.23 / 1,236.50	212.01 / 18	KANE INDUSTRIAL PARK 15 KANE INDUSTRIAL DR HUDSON MA	RELEASE
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RTN: 2-0000515 **Phase:**
Compliance Date: 3/25/1996 **RAO Class:**
Compliance Status: DEPND5 **Chemical Type:**
Compl Status Desc: DEP Not a Disposal Site **Location Type:**
Notification Date: 4/15/1989 **Site Name (BWSC):** KANE INDUSTRIAL PARK
Source: **Address (BWSC):** 15 KANE INDUSTRIAL DR
Reporting Category: NONE **Town (BWSC):** HUDSON
Site (EEA Data): KANE INDUSTRIAL PARK **Zip Code (BWSC):** 01749
Rel Add(EEA Data): 15 KANE INDUSTRIAL DR **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000515>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000515>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: TCTRNS
Date: 15-Apr-1989
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: DEPND5
Date: 25-Mar-1996
Action: TREGS
Action Description:
Status Description: Not a Disposal Site - DEP
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: DEPND5
Current St Desc: DEP Not a Disposal Site
Current Date: 25-Mar-1996
OFC Notification: 15-Apr-1989
Phase Desc:
RAO Class Desc:
Other Rela:

Category: NONE
Phase:
RAO Class:
OHM:

32	2 of 2	WNW	0.23 / 1,236.50	212.01 / 18	ALTERNATE FINISHING INC 15 KANE INDUSTRIAL DR HUDSON MA 01749	RCRA SQG
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EPA Handler ID: MAR000505123
Gen Status Universe: Small Quantity Generator
Contact Name: ROBERT PETERSON
Contact Address: 15 KANE INDUSTRIAL DR , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 978-567-9205
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20020401

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20080514
Scheduled Compliance Date: 20080731
Return to Compliance: D
Actual Return to Compl: 20080515
Violation Responsible Agency: State

Enforcement Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20080731
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20080731
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20140611
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20080514
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20080515
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20020401
Handler Name: ALTERNATE FINISHING INC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D003
Waste Code Description: REACTIVE WASTE

Hazardous Waste Code: F006
Waste Code Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Hazardous Waste Code: F007
Waste Code Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	15 KANE INDUSTRIAL DR
Name:	KANE INDUSTRIAL TRUST	Street 2:	
Date Became Current:	19000101	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	15 KANE INDUSTRIAL DR
Name:	ALTERNATE FINISHING INC	Street 2:	
Date Became Current:	19000101	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	15 KANE INDUSTRIAL DR
Name:	ALTERNATE FINISHING INC	Street 2:	
Date Became Current:	20020401	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

33	1 of 1	WNW	0.24 / 1,245.09	211.89 / 18	SANDOZ COLORS & CHEMICALS 16 KANE INDUSTRIAL DR HUDSON MA 01740	RCRA NON GEN
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EPA Handler ID: MAD075360602
Gen Status Universe: No Report
Contact Name: HARVEY GENDREAU
Contact Address: 16 KANE INDUSTRIAL DR , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 617-555-1212
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19800818

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19800818
 Handler Name: SANDOZ COLORS & CHEMICALS
 Source Type: Part A
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 19800818
 Handler Name: SANDOZ COLORS & CHEMICALS
 Source Type: Notification
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE
 Hazardous Waste Code: D002
 Waste Code Description: CORROSIVE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	16 KANE INDUSTRIAL DR
Name:	SANDOZ COLORS & CHEMICALS	Street 2:	
Date Became Current:	19911208	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	16 KANE INDUSTRIAL DRIVE
Name:	SANDOZ COLORS & CHEMICALS	Street 2:	
Date Became Current:	19911208	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Part A	Zip Code:	01740

Historical Handler Details

Receive Dt: 19800818
 Generator Code Description: Not a Generator, Verified
 Handler Name: SANDOZ COLORS & CHEMICALS

34	1 of 1	NW	0.52 / 2,723.67	201.79 / 8	BARTON ROAD NEIGHBORHOOD 220 AND 216 BARTON ROAD STOW MA	RELEASE
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RTN: 2-0020337
 Compliance Date: 10/22/2018
 Compliance Status: TIER1D
 Phase:
 RAO Class:
 Chemical Type:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Compl Status Desc:	Tier 1D				Location Type: RESIDENTIAL	
Notification Date:	10/13/2017				Site Name (BWSC): BARTON ROAD NEIGHBORHOOD	
Source:	UNKNOWN				Address (BWSC): 220 AND 216 BARTON ROAD	
Reporting Category:	TWO HR				Town (BWSC): STOW	
Site (EEA Data):	BARTON ROAD NEIGHBORHOOD				Zip Code (BWSC):	
Rel Add(EEA Data):	220 AND 216 BARTON ROAD				OFC Town (BWSC): STOW	
Town (EEA Data):	STOW					
Phase Desc:						
RAO Class Desc:						
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020337					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020337					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Action Information (BWSC)

Status: FLDD1A **F Name:**
Date: 24-Oct-2017 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Announced
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 18-Jun-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 22-Jun-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDDO **F Name:**
Date: 24-Jul-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FLDRAN **F Name:**
Date: 04-Apr-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class:
RAO Class Desc:

Status: FOLFLD **F Name:**
Date: 27-Aug-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Status: SIGACC **F Name:**
Date: 14-Mar-2018 **L Name:**
Action: C&E
Action Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	13-Oct-2017				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	28-Jun-2018				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	20-Oct-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	26-Oct-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	REQACC				F Name:	
Date:	28-May-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	SIGACC				F Name:	
Date:	29-May-2019				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	03-Apr-2019				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	28-Dec-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	02-Oct-2018				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	07-Aug-2019				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	20-Dec-2017				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	04-Apr-2018				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	20-Jun-2018				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	21-Jun-2018				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	29-Nov-2017				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	08-Dec-2017				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	05-Mar-2019				L Name:	
Action:	RLFA					
Action Description:						
Status Description:						
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	FLDD1A				F Name:	
Date:	30-Oct-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Initial Compliance Field Response - Announced	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	05-Jun-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	19-Jun-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	25-Jun-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	11-Jul-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	10-Sep-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up or Other Field Response	
RAO Class:						
RAO Class Desc:						
Status:	SIGACC				F Name:	
Date:	26-Jun-2018				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FLDD1A				F Name:	
Date:	26-Oct-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Initial Compliance Field Response - Announced	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	17-Jul-2019				L Name:	
Action:	RLFA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	30-Oct-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	24-Oct-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	21-Feb-2018				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	19-Dec-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	03-Jul-2019				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	09-Nov-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	20-Nov-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Field Response - Direct Oversight				
RAO Class:						
RAO Class Desc:						
<u>Release (BWSC) Detail</u>						
Prim ID:					Category:	TWO HR
Current Status:	TIER1D				Phase:	
Current St Desc:	Tier 1D				RAO Class:	
Current Date:	22-Oct-2018				OHM:	
OFC Notification:	13-Oct-2017					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc:
Other Rela:

35	1 of 2	WNW	0.45 / 2,399.08	202.38 / 9	RENTAL PROPERTY 63 BROOK ST HUDSON MA	LAST
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RTN:	2-0013064	Phase:	
Compliance Status:	RAO	Location Type(s):	RESIDENTIAL
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	RENTAL PROPERTY
Compliance Date:	12/18/2000	Address (BWSC):	63 BROOK ST
Notification Date:	12/9/1999	Town (BWSC):	HUDSON
RAO Class:	A2	Zip Code (BWSC):	01749-0000
Chemical Type:	Oil	OFC Town (BWSC):	HUDSON
Reporting Category:	TWO HR	Source(s):	AST
Site Name (EEA Data Portal):	RENTAL PROPERTY		
Release Add (EEA Data Portal):	63 BROOK ST		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013064		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013064		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release		
Source File:	(BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	18-Dec-2000	OHM:	Oil
OFC Notification:	09-Dec-1999		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:			
Other Rela:			

Chemical Information

Chemical:	FUEL OIL #2
Amount:	200
Units:	GAL

Action Information

Date:	24-Mar-2000	First Name:	
Action:	RAM	Last Name:	
Action Description:	Release Abatement Measure		
Status:	FEEREC		
Status Description:	Fee Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	10-Dec-1999	First Name:	
Action:	RLFA	Last Name:	
Action Description:	Site Visit or Office Follow-up		
Status:	FOLFLD		
Status Description:	Follow-up or Other Field Response		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	09-Dec-1999	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	APORAL		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	22-Mar-2000				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	10-Dec-1999				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	FLDISS					
Status Description:	Field NOR Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	12-Apr-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	APWRIT					
Status Description:	Written Approval of Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Dec-1999				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Dec-1999				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	25-Jan-2000				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	22-Mar-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	18-Dec-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	18-Dec-2000				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	19-Dec-2000				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	14-Apr-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	08-Feb-2000				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

[35](#) 2 of 2 **WNW** 0.45 / 2,399.08 202.38 / 9 **RENTAL PROPERTY** **RELEASE**
63 BROOK ST
HUDSON MA

RTN: 2-0013064 **Phase:**
Compliance Date: 12/18/2000 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** RESIDENTIAL
Notification Date: 12/9/1999 **Site Name (BWSC):** RENTAL PROPERTY
Source: AST **Address (BWSC):** 63 BROOK ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): RENTAL PROPERTY **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 63 BROOK ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013064>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013064>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: FUEL OIL #2
Amount: 200
Units: GAL

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 24-Mar-2000 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	PLANWR				F Name:	
Date:	22-Mar-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	RAORCD				F Name:	
Date:	18-Dec-2000				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	FOLFLD				F Name:	
Date:	10-Dec-1999				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	FOLOFF				F Name:	
Date:	14-Apr-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	FOLOFF				F Name:	
Date:	09-Dec-1999				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	CSRCVD				F Name:	
Date:	22-Mar-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	ISSUED				F Name:	
Date:	25-Jan-2000				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	STRCVD				F Name:	
Date:	18-Dec-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	FEEREC				F Name:	
Date:	19-Dec-2000				L Name:	
Action:	RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Response Action Outcome -RAO				
Status Description:		Fee Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	09-Dec-1999				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	APORAL				F Name:	
Date:	09-Dec-1999				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FLDISS				F Name:	
Date:	10-Dec-1999				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Field NOR Issued				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	APWRIT				F Name:	
Date:	12-Apr-2000				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Written Approval of Plan				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	08-Feb-2000				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	18-Dec-2000	OHM:	Oil
OFC Notification:	09-Dec-1999		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

36	1 of 2	ESE	0.49 / 2,600.97	175.80 / -18	NO LOCATION AID 17 HOWELL ST SUDBURY MA	LAST
RTN:	3-0025370	Phase:				
Compliance Status:	RAO	Location Type(s):	RESIDENTIAL			
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	NO LOCATION AID			
Compliance Date:	10/26/2006	Address (BWSC):	17 HOWELL ST			
Notification Date:	10/28/2005	Town (BWSC):	SUDBURY			
RAO Class:	A2	Zip Code (BWSC):	01776-0000			
Chemical Type:	Oil	OFC Town (BWSC):	SUDBURY			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Reporting Category: TWO HR **Source(s):** AST, PIPE
Site Name (EEA Data Portal): NO LOCATION AID
Release Add (EEA Data Portal): 17 HOWELL ST
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0025370
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0025370
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A2
Current Date: 26-Oct-2006 **OHM:** Oil
OFC Notification: 28-Oct-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Chemical: #2 FUEL OIL
Amount: 20
Units: GAL

Chemical: #2 FUEL OIL
Amount:
Units:

Action Information

Date: 25-Jan-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APWRIT
Status Description: Written Approval of Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 28-Oct-2005 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 01-Nov-2005 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 22-Aug-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	30-Oct-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	21-Nov-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORMD					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	06-Jan-2006				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	03-Nov-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	31-Oct-2005				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	26-Oct-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	30-Mar-2006				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	28-Oct-2005				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDD1A					
Status Description:	Initial Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	30-Mar-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	06-Jan-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	07-Sep-2006				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	28-Oct-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	27-Feb-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	26-Oct-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	25-Jan-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

[36](#)

2 of 2

ESE

0.49 /
2,600.97

175.80 /
-18

NO LOCATION AID
17 HOWELL ST
SUDBURY MA

RELEASE

RTN: 3-0025370 **Phase:**

Compliance Date: 10/26/2006 **RAO Class:** A2

Compliance Status: RAO **Chemical Type:** Oil

Compl Status Desc: Response Action Outcome **Location Type:** RESIDENTIAL

Notification Date: 10/28/2005 **Site Name (BWSC):** NO LOCATION AID

Source: AST, PIPE **Address (BWSC):** 17 HOWELL ST

Reporting Category: TWO HR **Town (BWSC):** SUDBURY

Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):** 01776-0000

Rel Add(EEA Data): 17 HOWELL ST **OFC Town (BWSC):** SUDBURY

Town (EEA Data): SUDBURY

Phase Desc:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Info URL: <https://eeasonline.eea.state.ma.us/Portal#!/wastesite/3-0025370>

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0025370
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount:
Units:

Chemical: #2 FUEL OIL
Amount: 20
Units: GAL

Action Information (BWSC)

Status: STRCVD **F Name:**
Date: 22-Aug-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRAN **F Name:**
Date: 31-Oct-2005 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 26-Oct-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 25-Jan-2006 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORMD **F Name:**
Date: 21-Nov-2005 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APWRIT **F Name:**
Date: 25-Jan-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Approval of Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 06-Jan-2006 **L Name:**
Action: IRA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Immediate Response Action	
Status Description:					Written Plan Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	STRCVD				F Name:	
Date:	27-Feb-2006				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Status or Interim Report Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	FOLOFF				F Name:	
Date:	30-Mar-2006				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	REPORT				F Name:	
Date:	28-Oct-2005				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Reportable Release under MGL 21E	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	CSRCVD				F Name:	
Date:	26-Oct-2006				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Completion Statement Received	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	ISSUED				F Name:	
Date:	03-Nov-2005				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	FLDD1A				F Name:	
Date:	28-Oct-2005				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Initial Compliance Field Response - Announced	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	REPORT				F Name:	
Date:	06-Jan-2006				L Name:	
Action:	RNF					
Action Description:					Release Notification Form Received	
Status Description:					Reportable Release under MGL 21E	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	
Status:	APORAL				F Name:	
Date:	28-Oct-2005				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Oral Approval of Plan or Action	
RAO Class:					A2	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	REPORT				F Name:	
Date:	30-Mar-2006				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ALSENT				F Name:	
Date:	07-Sep-2006				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FEEREC				F Name:	
Date:	30-Oct-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	01-Nov-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 26-Oct-2006
OFC Notification: 28-Oct-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

37	1 of 1	ESE	0.05 / 289.13	168.40 / -25	SUDBURY WATER DEPARTMENT 1 JARMAN ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID: 100319884
Form Type: ANF-001
Project Type: Oth:DISPOSAL ONLY
Owner Name: SUDBURY WATER DEPARTMENT
Owner address: 345 BOSTON POST ROAD
DLS Contractor: MILL CITY ENVIRONMENTAL CORPORATION
DLS Contractor ID: AC000568
Site Supervisor: DAVID GRAHAM
Site Supervisor ID: AS035860

Project Start Dt: 11/18/2019
Project End Dt: 12/12/2019

38	1 of 3	ESE	0.48 / 2,539.93	170.08 / -24	578 BOSTON POST RD; RTE 20 SUDBURY MA	HIST LUST
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Spill ID: N88-1159
Site ID: 0000
Case Closed: YES
LUST: ---

Repo Units Spilled: -----
Act. Qty Spilled: NONE
Act. Units Spilled: -----
Spill Date:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Incident:	-----				Spill Time:	
Other Incident:					Rport Date:	
Source:	U.S.T.				Rport Time:	01:45PM
Other Source:					Notifier:	
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	WASTE				First IR Form:	
Material:	WASTE OIL				Staff Lead:	PENTA, E
Other Material:					Category:	
Enviro Impact:	-----				Days For Case:	0
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor:	NOT USED
PCB Ranges:	-----				Referral Divisions:	NO
Reported Qty Spilled:		NONE				
CAS # for Haz Waste:						
SPL Info. 1st Entered:						
SPL Info. Last Entered:						

38	2 of 3	ESE	0.48 / 2,539.93	170.08 / -24	BARTLETTS GREENHOUSE 578 BOSTON POST RD SUDBURY MA	AUL
RTN:	3-0003267				Phase:	PHASE V
Compliance Status:	RAO				Location Type(s):	COMMERCIAL
Compl Status Desc:	Response Action Outcome				Site Name (BWSC):	BARTLETTS GREENHOUSE
Compliance Date:	11/14/2002				Address (BWSC):	578 BOSTON POST RD
Notification Date:	10/15/1990				Town (BWSC):	SUDBURY
RAO Class:	A3				Zip Code (BWSC):	01776-0000
Chemical Type:	Oil				OFC Town (BWSC):	SUDBURY
Reporting Category:	NONE				Source(s):	
Site Name (EEA Data Portal):	BARTLETTS GREENHOUSE					
Release Add (EEA Data Portal):	578 BOSTON POST RD					
City/Town (EEA Data Portal):	SUDBURY					
Phase Desc:	Operation, Maintenance and/or Monitoring					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003267					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003267					
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	PHASE V
Current Status Desc:	Response Action Outcome	RAO Class:	A3
Current Date:	14-Nov-2002	OHM:	Oil
OFC Notification:	15-Oct-1990		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		
Other Rela:			

Chemical Information

Chemical: WASTE OIL
Amount:
Units:

Action Information

Date: 18-Jun-2009
Action: RAO
Action Description: Response Action Outcome -RAO
Status: IMRCD
First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	03-Dec-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	10-Dec-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	10-Jul-2012				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:					Compliance Field Response - Announced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	07-Sep-2011				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	TSAUD					
Status Description:					Level I - Technical Screen Audit	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	02-Aug-1991				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:					Correspondence Issued	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	18-May-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	08-Jul-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Date:	25-Nov-2003				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	14-Nov-2002				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	07-Sep-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	28-Feb-2011				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	LEGNOT					
Status Description:	Legal Notice Published					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	15-Oct-1990				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	09-Dec-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	08-Aug-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1C					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	04-Dec-2001				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					use Limitation (AUL) has been implemented.	
Date:	28-Dec-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	10-Jul-2012				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	SNAUDI					
Status Description:	Level II - Audit Inspection					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:					First Name:	
Action:	BWS03				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	04-Jun-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Nov-2005				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	08-Aug-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	02-Jun-2005				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	08-Feb-2011				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	RECPT					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	26-Aug-1991				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	14-May-1999				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	14-Nov-2002				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	17-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	24-May-2004				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	08-Feb-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	19-Jul-2012				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	22-May-2003				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	14-Nov-2002				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	28-Nov-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	11-Oct-1996				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					

[38](#) 3 of 3 **ESE** **0.48 / 2,539.93** **170.08 / -24** **BARTLETTS GREENHOUSE** **578 BOSTON POST RD** **SUDBURY MA** **RELEASE**

RTN: 3-0003267 **Phase:** PHASE V
Compliance Date: 11/14/2002 **RAO Class:** A3
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 10/15/1990 **Site Name (BWSC):** BARTLETTS GREENHOUSE
Source: **Address (BWSC):** 578 BOSTON POST RD
Reporting Category: NONE **Town (BWSC):** SUDBURY
Site (EEA Data): BARTLETTS GREENHOUSE **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 578 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003267>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003267>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status: NAFNVD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	19-Jul-2012 AUDCOM				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 08-Feb-2011 AUL				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 24-May-2004 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RAORCD 14-Nov-2002 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PEREFF 09-Dec-1996 TCLASS				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	CSRCVD 14-Nov-2002 PHASIV				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 18-Nov-2005 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 25-Nov-2003 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					use Limitation (AUL) has been implemented.	
Status:	TCTRNS				F Name:	
Date:	15-Oct-1990				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	PLANWR				F Name:	
Date:	04-Dec-2001				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	IMRCD				F Name:	
Date:	28-Nov-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TIER1C				F Name:	
Date:	08-Aug-1996				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	ISSUED				F Name:	
Date:	02-Aug-1991				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	IMRCD				F Name:	
Date:	18-May-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	IMRCD				F Name:	
Date:	02-Jun-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	FLDRAN				F Name:	
Date:	10-Jul-2012				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Announced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	FLDRUN				F Name:	
Date:	11-Oct-1996				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	LEGNOT				F Name:	
Date:	28-Feb-2011				L Name:	
Action:	AUL					
Action Description:					Activity and Use Limitation	
Status Description:					Legal Notice Published	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	CSRCVD				F Name:	
Date:	14-Nov-2002				L Name:	
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Completion Statement Received	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	IMRCD				F Name:	
Date:	17-May-2007				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	IMRCD				F Name:	
Date:	18-Jun-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	IMRCD				F Name:	
Date:	08-Jul-2010				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	IMRCD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	28-Dec-2009 RAO				L Name:	
						Response Action Outcome -RAO Post-RAO C Status Report Received (Ph V-prior to 05 only) A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 07-Sep-2011 AUL				F Name: L Name:	
						Activity and Use Limitation Level I - Technical Screen Audit A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 22-May-2003 PHASEV				F Name: L Name:	
						Phase 5 Post-RAO C Status Report Received (Ph V-prior to 05 only) A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 07-Sep-2011 RAO				F Name: L Name:	
						Response Action Outcome -RAO Level I - Technical Screen Audit A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	SNAUDI 10-Jul-2012 AUL				F Name: L Name:	
						Activity and Use Limitation Level II - Audit Inspection A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 03-Dec-2004 RAO				F Name: L Name:	
						Response Action Outcome -RAO Post-RAO C Status Report Received (Ph V-prior to 05 only) A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 10-Dec-2008 RAO				F Name: L Name:	
						Response Action Outcome -RAO Post-RAO C Status Report Received (Ph V-prior to 05 only) A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	ISSUED 26-Aug-1991 NOR				F Name: L Name:	
						Notice of Responsibility Correspondence Issued A3 A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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use Limitation (AUL) has been implemented.

Status: CSRCVD **F Name:**
Date: 14-May-1999 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Completion Statement Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: IMRCD **F Name:**
Date: 04-Jun-2008 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: REVRCD **F Name:**
Date: 08-Feb-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Revised Statement or Transmittal Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: RECPT **F Name:**
Date: 08-Aug-1996 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE V
Current St Desc: Response Action Outcome **RAO Class:** A3
Current Date: 14-Nov-2002 **OHM:** Oil
OFC Notification: 15-Oct-1990
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Other Rela:

39	1 of 1	WNW	0.23 / 1,216.26	196.48 / 3	CHESTNUT STREET WELL CHESTNUT STREET HUDSON MA	OIL & HAZ MAT
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RTN: 2-0020907
Status: TIER1D
Region - Office Location: Central Region - Worcester
Site Info: <https://eeaonline.eea.state.ma.us/portal#!/search/wastesite/results?RTN=2-0020907>
Data Source: MassDEP Tier Classified Oil and/or Hazardous Material Sites

Location Documentation Table

Primary Source Material Code: TEXT
Prim Source Mat Code Desc: Textual information
Secondary Source Mat Code: AP_DOQ
Sec Source Mat Code Desc: MassGIS 1:5,000 digital orthophotography

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tertiary Source Mat Code:						
Tertiary Source Mat Code Desc:						
Location Type Code:		CB				
Location Type Desc:		Center of a building footprint positively associated with the facility/site				
Location Method Code:		OTH				
Location Method Desc:		Interpolation - Other				
Location Accuracy Est Code:		16				
Location Accuracy Est Desc:		Estimated horizontal accuracy is 0 - +/-16 feet				
Location Base Map Code:		DOQ				
Location Base Map Desc:		Digital orthophoto base map (DOQ)				

40	1 of 2	ESE	0.23 / 1,227.62	151.16 / -43	RESIDENTIAL COMMUNITY 200 BAY DRIVE SUDBURY MA	RELEASE
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RTN:	3-0035104	Phase:	
Compliance Date:	9/11/2018	RAO Class:	PN
Compliance Status:	PSNC	Chemical Type:	Oil
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:	RESIDENTIAL, ROADWAY
Notification Date:	8/6/2018	Site Name (BWSC):	RESIDENTIAL COMMUNITY
Source:	BOOM, LIFT, LINE, SHEETROCK, TRUCK	Address (BWSC):	200 BAY DRIVE
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	RESIDENTIAL COMMUNITY	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	200 BAY DRIVE	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Permanent Solution with No Conditions		
RAO Class Desc:	Permanent Solution with No Conditions		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0035104		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0035104		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	HYDRAULIC FLUID
Amount:	20
Units:	GAL

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	06-Aug-2018	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	REPORT	F Name:	
Date:	06-Aug-2018	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	REPORT	F Name:	
Date:	11-Sep-2018	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	RECPT	F Name:	
Date:	11-Sep-2018	L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD **F Name:**
Date: 11-Sep-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current St Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 11-Sep-2018 **OHM:** Oil
OFC Notification: 06-Aug-2018
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

40	2 of 2	ESE	0.23 / 1,227.62	151.16 / -43	BEACON ROOFING SUPPLY 200 BAY DR SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAR000527127
Gen Status Universe: No Report
Contact Name: BILL HICKEY
Contact Address: 40 , WAVERLY STREET , , FRAMINGHAM , MA, 01702 , US
Contact Phone No and Ext: 978-502-8232
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20180821

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20180821
 Handler Name: BEACON ROOFING SUPPLY
 Source Type: Notification
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: MA01
 Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	200
Type:	Private	Street 1:	BAY DR
Name:	BEACON ROOFING SUPPLY	Street 2:	
Date Became Current:	20180806	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Owner/Operator Ind:	Current Owner	Street No:	200
Type:	Private	Street 1:	BAY DR
Name:	BEACON ROOFING SUPPLY	Street 2:	
Date Became Current:	20180806	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

41	1 of 4	ESE	0.39 / 2,042.35	150.94 / -43	NO LOCATION AID 528 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0027243	Phase:	PHASE IV
Compliance Date:	8/25/2017	RAO Class:	
Compliance Status:	TIER1	Chemical Type:	Hazardous Material
Compl Status Desc:	Tier 1 Classification	Location Type:	COMMERCIAL, RESIDENTIAL
Notification Date:	11/6/2007	Site Name (BWSC):	NO LOCATION AID
Source:	UNKNOWN	Address (BWSC):	528 BOSTON POST RD
Reporting Category:	120 DY	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	528 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0027243		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0027243		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: ETHENE, TRICHLORO-
 Amount: 0.063
 Units: MG/L

Action Information (BWSC)

Status:	ISSUED	F Name:	
Date:	15-Nov-2007	L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD			F Name:		
Date:	11-Nov-2008			L Name:		
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD			F Name:		
Date:	11-Nov-2008			L Name:		
Action:	PHSIII					
Action Description:		Phase 3				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	PLANWR			F Name:		
Date:	17-Jul-2017			L Name:		
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD			F Name:		
Date:	16-Nov-2016			L Name:		
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	TSEVAL			F Name:		
Date:	08-Nov-2013			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
RAO Class:						
RAO Class Desc:						
Status:	REPORT			F Name:		
Date:	06-Nov-2007			L Name:		
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Status:	RECPT			F Name:		
Date:	25-Aug-2017			L Name:		
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						
Status:	SOW			F Name:		
Date:	25-Aug-2017			L Name:		
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Scope of Work Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	PLANWR				F Name:	
Date:	11-Sep-2017				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Written Plan Received			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	20-Feb-2018				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Status or Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	05-Jul-2018				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Status or Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	18-Apr-2017				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:						
RAO Class Desc:						
Status:	TIERI				F Name:	
Date:	25-Aug-2017				L Name:	
Action:	TCLASS					
Action Description:			Tier Classification			
Status Description:			Tier 1 Classification			
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	18-Jul-2017				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:						
RAO Class Desc:						
Status:	TSEVAL				F Name:	
Date:	15-Nov-2018				L Name:	
Action:	RAO					
Action Description:			Response Action Outcome -RAO			
Status Description:			Periodic Review Opinion Evaluating Temporary Solution			
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	16-Sep-2008				L Name:	
Action:	NOR					
Action Description:			Notice of Responsibility			
Status Description:			Anniversary Letter Sent			
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	14-Mar-2018				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	13-Sep-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	03-Jan-2019				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	FEEREC				F Name:	
Date:	06-May-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Fee Received					
RAO Class:						
RAO Class Desc:						
Status:	FEEREC				F Name:	
Date:	14-Sep-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Fee Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	09-Jan-2018				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	11-Nov-2008				L Name:	
Action:	PHASE1					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	09-Aug-2018				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	14-Aug-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	11-Sep-2017 RAM				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	LEGNOT 31-Aug-2017 TCLASS				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	CSRCVD 14-Nov-2017 RAM				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FEEREC 21-Jul-2017 RAM				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 13-Mar-2017 RAM				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 06-Nov-2007 RNF				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	CSRCVD 25-Aug-2017 PHASE1				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FEECD 29-Dec-2008 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FEEREC 05-May-2017 RAM				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: PLANWR
Date: 17-Apr-2017
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: PLANWR
Date: 10-Nov-2016
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: FEEREC
Date: 14-Nov-2008
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RAORCD
Date: 11-Nov-2008
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: TIER1
Current St Desc: Tier 1 Classification
Current Date: 25-Aug-2017
OFC Notification: 06-Nov-2007
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Other Rela:

Category: 120 DY
Phase: PHASE IV
RAO Class:
OHM: Hazardous Material

41	2 of 4	ESE	0.39 / 2,042.35	150.94 / -43	RAYTHEON EAST DRIVEWAY 528 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0017106
Compliance Date: 9/17/1998
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 7/30/1998
Source: PIPE, VEHICLE
Reporting Category: TWO HR
Site (EEA Data): RAYTHEON EAST DRIVEWAY
Rel Add(EEA Data): 528 BOSTON POST RD
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0017106>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0017106>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type:
Location Type: COMMERCIAL
Site Name (BWSC): RAYTHEON EAST DRIVEWAY
Address (BWSC): 528 BOSTON POST RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: HYDRAULIC OIL
Amount: 20
Units: GAL

Chemical: HYDRAULIC OIL
Amount: 15
Units: GAL

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 30-Jul-1998 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NAFNON **F Name:**
Date: 28-Sep-1998 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 17-Sep-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 30-Jul-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 17-Sep-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 16-Sep-1998 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 17-Sep-1998 **OHM:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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OFC Notification: 30-Jul-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

41	3 of 4	ESE	0.39 / 2,042.35	150.94 / -43	RAYTHEON COMPANY 528 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0003037	Phase:	
Compliance Date:	8/4/1997	RAO Class:	
Compliance Status:	PENNFA	Chemical Type:	
Compl Status Desc:	Pending No Further Action	Location Type:	
Notification Date:	4/15/1990	Site Name (BWSC):	RAYTHEON COMPANY
Source:		Address (BWSC):	528 BOSTON POST RD
Reporting Category:	NONE	Town (BWSC):	SUDBURY
Site (EEA Data):	RAYTHEON COMPANY	Zip Code (BWSC):	01776
Rel Add(EEA Data):	528 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003037		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003037		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status:	FEEREC	F Name:	
Date:	14-Sep-2017	L Name:	
Action:	RAM		
Action Description:	Release Abatement Measure		
Status Description:	Fee Received		
RAO Class:			
RAO Class Desc:			

Status:	PLANWR	F Name:	
Date:	17-Apr-2017	L Name:	
Action:	RAM		
Action Description:	Release Abatement Measure		
Status Description:	Written Plan Received		
RAO Class:			
RAO Class Desc:			

Status:	TSAUD	F Name:	
Date:	18-Apr-2017	L Name:	
Action:	RAM		
Action Description:	Release Abatement Measure		
Status Description:	Level I - Technical Screen Audit		
RAO Class:			
RAO Class Desc:			

Status:	TSAUD	F Name:	
Date:	18-Jul-2017	L Name:	
Action:	RAM		
Action Description:	Release Abatement Measure		
Status Description:	Level I - Technical Screen Audit		
RAO Class:			
RAO Class Desc:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	TCTRNS				F Name:	
Date:	15-Apr-1990				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	14-Nov-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	14-Aug-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	03-Jan-2019				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	14-Mar-2018				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	09-Aug-2018				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	10-Nov-2016				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	17-Jul-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	13-Sep-2017				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					

RAO Class:

RAO Class Desc:

Status: FEEREC **F Name:**
Date: 21-Jul-2017 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 13-Mar-2017 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: PENNFA **F Name:**
Date: 04-Aug-1997 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: PLANWR **F Name:**
Date: 11-Sep-2017 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 20-Feb-2018 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: PIPDLN **F Name:**
Date: 12-Jun-2015 **L Name:**
Action: PIP
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 16-Nov-2016 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: FEEREC **F Name:**
Date: 05-May-2017 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class:
RAO Class Desc:

Status: FEEREC **F Name:**
Date: 06-May-2017 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class:
RAO Class Desc:

Status: STRCVD
Date: 09-Jan-2018
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: STRCVD
Date: 05-Jul-2018
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: TSAUD
Date: 11-Sep-2017
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

F Name:
L Name:
F Name:
L Name:
F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: PENNFA
Current St Desc: Pending No Further Action
Current Date: 04-Aug-1997
OFC Notification: 15-Apr-1990
Phase Desc:
RAO Class Desc:
Other Rela:

Category: NONE
Phase:
RAO Class:
OHM:

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EPA Handler ID: MAD001410539
Gen Status Universe: Small Quantity Generator
Contact Name: NEIL F VAUGHN
Contact Address: 1001 , BOSTON POST RD , , MARLBOROUGH , MA, 01752-0000 , US
Contact Phone No and Ext: 508-490-3244
Contact Email: NEIL.VAUGHN@RTX.COM
Contact Country: US
Land Type: Private
County Name: MIDDLESEX
EPA Region: 01
Receive Date: 20200526

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 340(1)(b)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19920930
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 560(3)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(f)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
 Violation Short Description: Generators - Pre-transport
 Violation Type: 262.C
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 685(1)
 Violation Short Description: Generators - Pre-transport
 Violation Type: 262.C
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(4)(d)
 Violation Short Description: Generators - Pre-transport
 Violation Type: 262.C
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(b)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(4)(c)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 685(1)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(1)(f)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(4)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Details

Citation: SR - 340(1)(b)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 560(3)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19920804
Scheduled Compliance Date: 19920930
Return to Compliance: Observed
Actual Return to Compl: 19930510
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:

Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 351(8)(a)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 682
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19920827
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(4)(d)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19920804
 Scheduled Compliance Date: 19920930
 Return to Compliance: Observed
 Actual Return to Compl: 19930510
 Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19920827
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19900124
Scheduled Compliance Date: 19900319
Return to Compliance: Observed
Actual Return to Compl: 19900524
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19900213
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 19940223
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19930510
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19920804
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 19930510
Evaluation Agency: State

Evaluation Start Date: 19920804
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19930510
Evaluation Agency: State

Evaluation Start Date: 19920804
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Return to Compliance Date:	19930510					
Evaluation Agency:	State					
Evaluation Start Date:	19900524					
Evaluation Type Description:	COMPLIANCE SCHEDULE EVALUATION					
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:	State					
Evaluation Start Date:	19900124					
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE					
Violation Short Description:	Generators - General					
Return to Compliance Date:	19900524					
Evaluation Agency:	State					

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19800818
Handler Name:	RAYTHEON COMPANY SSC
Federal Waste Generator Code:	1
Generator Code Description:	Large Quantity Generator
Source Type:	Notification

Waste Code Details

Hazardous Waste Code:	F001
Waste Code Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code:	F002
Waste Code Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code:	F003
Waste Code Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING,

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	
Hazardous Waste Code:					F005	
Waste Code Description:					THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	
Hazardous Waste Code:					F009	
Waste Code Description:					SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.	
Hazardous Waste Code:					P030	
Waste Code Description:					CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED	
Hazardous Waste Code:					P074	
Waste Code Description:					NICKEL CYANIDE (OR) NICKEL CYANIDE NI(CN)2	
Hazardous Waste Code:					U002	
Waste Code Description:					2-PROPANONE (I) (OR) ACETONE (I)	
Hazardous Waste Code:					U003	
Waste Code Description:					ACETONITRILE (I,T)	
Hazardous Waste Code:					U037	
Waste Code Description:					BENZENE, CHLORO- (OR) CHLOROBENZENE	
Hazardous Waste Code:					U044	
Waste Code Description:					CHLOROFORM (OR) METHANE, TRICHLORO-	
Hazardous Waste Code:					U112	
Waste Code Description:					ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)	
Hazardous Waste Code:					U122	
Waste Code Description:					FORMALDEHYDE	
Hazardous Waste Code:					U123	
Waste Code Description:					FORMIC ACID (C,T)	
Hazardous Waste Code:					U133	
Waste Code Description:					HYDRAZINE (R,T)	
Hazardous Waste Code:					U134	
Waste Code Description:					HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)	
Hazardous Waste Code:					U151	
Waste Code Description:					MERCURY	
Hazardous Waste Code:					U154	
Waste Code Description:					METHANOL (I) (OR) METHYL ALCOHOL (I)	
Hazardous Waste Code:					U159	
Waste Code Description:					2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)	
Hazardous Waste Code:					U161	
Waste Code Description:					4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-	
Hazardous Waste Code:					U190	
Waste Code Description:					1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE	
Hazardous Waste Code:					U196	
Waste Code Description:					PYRIDINE	
Hazardous Waste Code:					U211	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:		CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-				
Hazardous Waste Code:		U213				
Waste Code Description:		FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)				
Hazardous Waste Code:		U220				
Waste Code Description:		BENZENE, METHYL- (OR) TOLUENE				
Hazardous Waste Code:		U226				
Waste Code Description:		ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM				
Hazardous Waste Code:		U228				
Waste Code Description:		ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE				
Hazardous Waste Code:		U238				
Waste Code Description:		CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)				
Hazardous Waste Code:		U239				
Waste Code Description:		BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19900301
Handler Name: RAYTHEON COMPANY
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19920327
Handler Name: RAYTHEON CO ED/EDL
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 19940328
Handler Name: RAYTHEON COMPANY - ED- EDL
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 19960228
Handler Name: RAYTHEON COMPANY - RES
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 5
Receive Date: 19980206
Handler Name: RAYTHEON COMPANY
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 6
 Receive Date: 20000303
 Handler Name: RAYTHEON COMPANY
 Federal Waste Generator Code: 1
 Generator Code Description: Large Quantity Generator
 Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 7
 Receive Date: 20020222
 Handler Name: RAYTHEON COMPANY
 Federal Waste Generator Code: 1
 Generator Code Description: Large Quantity Generator
 Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
 Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D003
 Waste Code Description: REACTIVE WASTE

Hazardous Waste Code: D007
 Waste Code Description: CHROMIUM

Hazardous Waste Code: D008
 Waste Code Description: LEAD

Hazardous Waste Code: D009
 Waste Code Description: MERCURY

Hazardous Waste Code: D011
 Waste Code Description: SILVER

Hazardous Waste Code: D035
 Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
 Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
 Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F007
 Waste Code Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:		LABP				
Waste Code Description:		LAB PACK				
Hazardous Waste Code:		P030				
Waste Code Description:		CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED				
<u>Hazardous Waste Handler Details</u>						
Sequence No:		8				
Receive Date:		20040412				
Handler Name:		SURVEILANCE AND SENSORS CENTER				
Federal Waste Generator Code:		1				
Generator Code Description:		Large Quantity Generator				
Source Type:		Annual/Biennial Report				
<u>Waste Code Details</u>						
Hazardous Waste Code:		D001				
Waste Code Description:		IGNITABLE WASTE				
Hazardous Waste Code:		D002				
Waste Code Description:		CORROSIVE WASTE				
Hazardous Waste Code:		D003				
Waste Code Description:		REACTIVE WASTE				
Hazardous Waste Code:		D007				
Waste Code Description:		CHROMIUM				
Hazardous Waste Code:		D008				
Waste Code Description:		LEAD				
Hazardous Waste Code:		D009				
Waste Code Description:		MERCURY				
Hazardous Waste Code:		D011				
Waste Code Description:		SILVER				
Hazardous Waste Code:		D035				
Waste Code Description:		METHYL ETHYL KETONE				
Hazardous Waste Code:		F003				
Waste Code Description:		THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.				
Hazardous Waste Code:		F005				
Waste Code Description:		THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.				
Hazardous Waste Code:		F007				
Waste Code Description:		SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.				
Hazardous Waste Code:		LABP				
Waste Code Description:		LAB PACK				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Handler Details

Sequence No: 9
Receive Date: 20060320
Handler Name: RAYTHEON COMPANY SSC
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D007
Waste Code Description: CHROMIUM

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20080128
Handler Name: RAYTHEON COMPANY SSC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			D007			
Waste Code Description:			CHROMIUM			
Hazardous Waste Code:			D008			
Waste Code Description:			LEAD			
Hazardous Waste Code:			D009			
Waste Code Description:			MERCURY			
Hazardous Waste Code:			D011			
Waste Code Description:			SILVER			
Hazardous Waste Code:			D035			
Waste Code Description:			METHYL ETHYL KETONE			
Hazardous Waste Code:			F003			
Waste Code Description:			THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			F007			
Waste Code Description:			SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.			
Hazardous Waste Code:			MA01			
Waste Code Description:			WASTE OIL			
Hazardous Waste Code:			MA02			
Waste Code Description:			PCB WASTES			
Hazardous Waste Code:			MA95			
Waste Code Description:			UNIVERSAL WASTE			
Hazardous Waste Code:			MA99			
Waste Code Description:			NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST			

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20161018
Handler Name: RAYTHEON COMPANY SSC
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D007
Waste Code Description: CHROMIUM

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code:			D011			
Waste Code Description:			SILVER			
Hazardous Waste Code:			D035			
Waste Code Description:			METHYL ETHYL KETONE			
Hazardous Waste Code:			F003			
Waste Code Description:			THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			F007			
Waste Code Description:			SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.			
Hazardous Waste Code:			MA01			
Waste Code Description:			WASTE OIL			
Hazardous Waste Code:			MA02			
Waste Code Description:			PCB WASTES			
Hazardous Waste Code:			MA95			
Waste Code Description:			UNIVERSAL WASTE			
Hazardous Waste Code:			MA99			
Waste Code Description:			NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST			

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20170403
Handler Name: RAYTHEON COMPANY SSC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D007
Waste Code Description: CHROMIUM

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D011
Waste Code Description: SILVER

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	
					Hazardous Waste Code: F007 Waste Code Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.	
					Hazardous Waste Code: MA01 Waste Code Description: WASTE OIL	
					Hazardous Waste Code: MA02 Waste Code Description: PCB WASTES	
					Hazardous Waste Code: MA95 Waste Code Description: UNIVERSAL WASTE	
					Hazardous Waste Code: MA99 Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST	
<u>Hazardous Waste Handler Details</u>						
					Sequence No: 5	
					Receive Date: 20200423	
					Handler Name: RAYTHEON TECHNOLOGIES CORPORATION	
					Federal Waste Generator Code: 2	
					Generator Code Description: Small Quantity Generator	
					Source Type: Notification	
<u>Waste Code Details</u>						
					Hazardous Waste Code: D001 Waste Code Description: IGNITABLE WASTE	
					Hazardous Waste Code: D002 Waste Code Description: CORROSIVE WASTE	
					Hazardous Waste Code: D007 Waste Code Description: CHROMIUM	
					Hazardous Waste Code: D008 Waste Code Description: LEAD	
					Hazardous Waste Code: D009 Waste Code Description: MERCURY	
					Hazardous Waste Code: D011 Waste Code Description: SILVER	
					Hazardous Waste Code: D035 Waste Code Description: METHYL ETHYL KETONE	
					Hazardous Waste Code: F003 Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	
					Hazardous Waste Code: F007 Waste Code Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.	
					Hazardous Waste Code: MA01	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:			WASTE OIL			
Hazardous Waste Code:			MA02			
Waste Code Description:			PCB WASTES			
Hazardous Waste Code:			MA95			
Waste Code Description:			UNIVERSAL WASTE			
Hazardous Waste Code:			MA99			
Waste Code Description:			NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST			
<u>Hazardous Waste Handler Details</u>						
Sequence No:			6			
Receive Date:			20200526			
Handler Name:			RAYTHEON COMPANY			
Federal Waste Generator Code:			2			
Generator Code Description:			Small Quantity Generator			
Source Type:			Notification			
<u>Waste Code Details</u>						
Hazardous Waste Code:			D001			
Waste Code Description:			IGNITABLE WASTE			
Hazardous Waste Code:			D002			
Waste Code Description:			CORROSIVE WASTE			
Hazardous Waste Code:			D007			
Waste Code Description:			CHROMIUM			
Hazardous Waste Code:			D008			
Waste Code Description:			LEAD			
Hazardous Waste Code:			D009			
Waste Code Description:			MERCURY			
Hazardous Waste Code:			D011			
Waste Code Description:			SILVER			
Hazardous Waste Code:			D035			
Waste Code Description:			METHYL ETHYL KETONE			
Hazardous Waste Code:			F003			
Waste Code Description:			THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
Hazardous Waste Code:			F007			
Waste Code Description:			SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.			
Hazardous Waste Code:			MA01			
Waste Code Description:			WASTE OIL			
Hazardous Waste Code:			MA02			
Waste Code Description:			PCB WASTES			
Hazardous Waste Code:			MA95			
Waste Code Description:			UNIVERSAL WASTE			
Hazardous Waste Code:			MA99			
Waste Code Description:			NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST			

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	870
Type:	Private	Street 1:	WINTER ST
Name:	RAYTHEON TECHNOLOGIES CORPORATION	Street 2:	
Date Became Current:	19580101	City:	WALTHAM
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	02451
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	1001 BOSTON POST ROAD
Name:	RAYTHEON COMPANY	Street 2:	
Date Became Current:	19580101	City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752-0000
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	430 BOSTON POST RD
Name:	RAYTHEON ELECTRONIC SYSTEMS	Street 2:	
Date Became Current:	19901029	City:	WAYLAND
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01778
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	528 BOSTON POST RD
Name:	RAYTHEON ELECTRONIC SYSTEMS	Street 2:	
Date Became Current:	19580101	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776-0000
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	430 BOSTON POST RD
Name:	RAYTHEON COMPANY	Street 2:	
Date Became Current:	20041016	City:	WAYLAND
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01778
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	528 BOSTON POST RD
Name:	RAYTHEON COMPANY	Street 2:	
Date Became Current:	19580101	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776-0000
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	
Name:	RAYTHEON COMPANY	Street 2:	
Date Became Current:	19490101	City:	
Date Ended Current:		State:	
Phone:		Country:	US
Source Type:	Annual/Biennial Report	Zip Code:	
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	1001 BOSTON POST ROAD
Name:	RAYTHEON COMPANY	Street 2:	
Date Became Current:	19580101	City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	528 BOSTON POST RD
Name:	RAYTHEON COMPANY				Street 2:	
Date Became Current:	19580101				City:	SUDBURY
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01776-0000
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	870 WINTER STREET
Name:	RAYTHEON COMPANY				Street 2:	
Date Became Current:	19490101				City:	WALTHAM
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Annual/Biennial Report				Zip Code:	01776
Owner/Operator Ind:	Current Operator				Street No:	1001
Type:	Private				Street 1:	BOSTON POST RD
Name:	RAYTHEON MISSILES & DEFENSE				Street 2:	
Date Became Current:	19580101				City:	MARLBOROUGH
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01752-0000
Owner/Operator Ind:	Current Owner				Street No:	870
Type:	Private				Street 1:	WINTER ST
Name:	RAYTHEON COMPANY				Street 2:	
Date Became Current:	19580101				City:	WALTHAM
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	02451
Owner/Operator Ind:	Current Operator				Street No:	1001
Type:	Private				Street 1:	BOSTON POST RD
Name:	RAYTHEON COMPANY				Street 2:	
Date Became Current:	19580101				City:	MARLBOROUGH
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01752
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	528 BOSTON POST RD
Name:	RAYTHEON ELECTRONIC SYSTEMS				Street 2:	
Date Became Current:	19580101				City:	SUDBURY
Date Ended Current:					State:	MA
Phone:					Country:	
Source Type:	Notification				Zip Code:	01776-0000
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	
Name:	RATHEON COMPANY				Street 2:	
Date Became Current:	19490101				City:	
Date Ended Current:					State:	
Phone:					Country:	US
Source Type:	Annual/Biennial Report				Zip Code:	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	
Name:	RATHEON COMPANY				Street 2:	
Date Became Current:	19490101				City:	
Date Ended Current:					State:	
Phone:					Country:	US
Source Type:	Annual/Biennial Report				Zip Code:	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	870 WINTER STREET
Name:	RAYTHEON COMPANY				Street 2:	
Date Became Current:	19490101				City:	WALTHAM
Date Ended Current:					State:	MA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phone:				Country:	US	
Source Type:	Annual/Biennial Report			Zip Code:	02451	

Historical Handler Details

Receive Dt: 20200423
 Generator Code Description: Small Quantity Generator
 Handler Name: RAYTHEON TECHNOLOGIES CORPORATION

Receive Dt: 20170403
 Generator Code Description: Small Quantity Generator
 Handler Name: RAYTHEON COMPANY SSC

Receive Dt: 20161018
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY SSC

Receive Dt: 20080128
 Generator Code Description: Small Quantity Generator
 Handler Name: RAYTHEON COMPANY SSC

Receive Dt: 20060320
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY SSC

Receive Dt: 20040412
 Generator Code Description: Large Quantity Generator
 Handler Name: SURVEILANCE AND SENSORS CENTER

Receive Dt: 20020222
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY

Receive Dt: 20000303
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY

Receive Dt: 19980206
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY

Receive Dt: 19960228
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY - RES

Receive Dt: 19940328
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY - ED- EDL

Receive Dt: 19920327
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON CO ED/EDL

Receive Dt: 19900301
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY

Receive Dt: 19800818
 Generator Code Description: Large Quantity Generator
 Handler Name: RAYTHEON COMPANY SSC

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WNW

0.10 / 502.87

213.92 / 20

YLK REALTY TRUST
 40 CHESTNUT STREET
 HUDSON MA

ASBESTOS PROJECT

Project ID: 100103632
 Form Type: AQ-06

Project Start Dt: 04/15/2010
 Project End Dt: 05/30/2010

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Project Type:
Owner Name: YLK REALTY TRUST
Owner address: 36 CHESTNUT STREET
DLS Contractor:
DLS Contractor ID:
Site Supervisor:
Site Supervisor ID:

43	1 of 2	ESE	0.37 / 1,934.08	145.60 / -48	SUNRISE CLEANERS 523 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0015591	Phase:	
Compliance Date:	1/13/1999	RAO Class:	
Compliance Status:	RTN CLOSED	Chemical Type:	Hazardous Material
Compl Status Desc:	Release Tracking Number Closed	Location Type:	COMMERCIAL
Notification Date:	10/3/1997	Site Name (BWSC):	SUNRISE CLEANERS
Source:	3-4339, HISTORIC	Address (BWSC):	523 BOSTON POST RD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	SUNRISE CLEANERS	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	523 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015591		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015591		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	PCE
Amount:	
Units:	
Chemical:	TCE
Amount:	
Units:	
Chemical:	1,2-DICHLOROETHYLENE
Amount:	
Units:	
Chemical:	PCE
Amount:	15
Units:	PPB

Action Information (BWSC)

Status:	INTLET	F Name:	
Date:	04-Dec-1998	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			
Status:	APWRIT	F Name:	
Date:	14-Dec-1999	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Written Approval of Plan		
RAO Class:			
RAO Class Desc:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	PLANMD				F Name:	
Date:	28-Apr-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	13-Nov-1998				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	30-Jan-1998				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	SOW				F Name:	
Date:	07-Nov-1997				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	11-Apr-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	TIER1A				F Name:	
Date:	23-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1A Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	05-Dec-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	28-Apr-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RTCLSS				F Name:	
Date:	13-Jan-1999				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Linked to a Tier Classified Site					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	RTCLSS				F Name:	
Date:	24-Sep-1998				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Linked to a Tier Classified Site					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	23-Dec-1998				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	DEPDIS				F Name:	
Date:	12-Jan-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	DEP Disagrees with Classification					
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	03-Oct-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	13-Apr-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	APWRIT				F Name:	
Date:	19-Jul-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Approval of Plan					
RAO Class:						
RAO Class Desc:						
Status:	IHEVAL				F Name:	
Date:	05-Dec-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	15-Jun-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	03-Oct-1997				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	23-Feb-2000				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Announced				
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	05-Dec-1997				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	10-Apr-1996				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	14-Dec-1995				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						
Status:	TIER1B				F Name:	
Date:	12-Jan-1999				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Tier 1B Classification (retired)				
RAO Class:						
RAO Class Desc:						
Status:	TIER1B				F Name:	
Date:	14-Dec-1995				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Tier 1B Classification (retired)				
RAO Class:						
RAO Class Desc:						
Status:	APORMD				F Name:	
Date:	27-Feb-2001				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of a Modified Plan				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	06-Mar-1998				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ISSUED				F Name:	
Date:	01-Dec-1997				L Name:	
Action:	NOR					
Action Description:			Notice of Responsibility			
Status Description:			Correspondence Issued			
RAO Class:						
RAO Class Desc:						
Status:	LNKVTC				F Name:	
Date:	24-Sep-1998				L Name:	
Action:	TCLASS					
Action Description:			Tier Classification			
Status Description:			RTN Linked to TCLASS Via Tier Classification Submittal			
RAO Class:						
RAO Class Desc:						
Status:	REVRCD				F Name:	
Date:	23-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:			Tier Classification			
Status Description:			Revised Statement or Transmittal Received			
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	20-Jul-1998				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Modified Revised or Updated Plan Received			
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	05-Nov-1999				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Modified Revised or Updated Plan Received			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	11-Sep-1998				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Status or Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	APORMD				F Name:	
Date:	23-Dec-1998				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Oral Approval of a Modified Plan			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	27-Sep-2000				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Status or Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	27-Feb-2001				L Name:	
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAONR	Phase:	
Current St Desc:	RAO Not Required	RAO Class:	
Current Date:	13-Jan-1999	OHM:	Hazardous Material
OFC Notification:	03-Oct-1997		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

43	2 of 2	ESE	0.37 / 1,934.08	145.60 / -48	SUNRISE CLEANERS 523 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0004339	Phase:	PHASE V
Compliance Date:	1/31/2003	RAO Class:	C1
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, DRYCLEANER
Notification Date:	3/15/1993	Site Name (BWSC):	SUNRISE CLEANERS
Source:	PIPE	Address (BWSC):	523 BOSTON POST RD
Reporting Category:	NONE	Town (BWSC):	SUDBURY
Site (EEA Data):	SUNRISE CLEANERS	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	523 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004339		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004339		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: PCE
Amount:
Units:

Chemical: VOCS
Amount:
Units:

Action Information (BWSC)

Status:	IMRCD	F Name:	
Date:	07-Aug-2003	L Name:	
Action:	PHASEV		
Action Description:	Phase 5		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	C1		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Status: CSRCVD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	31-Jan-2003 PHASIV				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 12-Mar-2010 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 19-Mar-2013 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 10-Apr-2012 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 12-Apr-2011 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 03-Oct-2014 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	RMRINT				F Name:	
Date:	16-Mar-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	13-Oct-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	20-Oct-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TCTRNS				F Name:	
Date:	15-Mar-1993				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TIER1B				F Name:	
Date:	12-Jan-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	APORAL				F Name:	
Date:	22-Nov-1999				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	10-Jun-1998				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	APPT1A				F Name:	
Date:	05-Feb-1999				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Tier 1A or Priority Submittal Approved (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	07-Feb-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	20-Oct-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	18-Jul-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	30-Sep-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TIER1A				F Name:	
Date:	23-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1A Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	NAFNVD				F Name:	
Date:	22-May-2009				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	NON				F Name:	
Date:	05-Jul-2007				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	SOW				F Name:	
Date:	11-Dec-1997				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ABCRC				F Name:	
Date:	13-Jun-2001				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	As-Built Construction Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANWR				F Name:	
Date:	04-Dec-2001				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	PLANWR				F Name:	
Date:	29-Mar-2006				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Written Plan Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	09-Feb-2006				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RMRINT				F Name:	
Date:	25-Oct-2012				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	SNAUDI				F Name:	
Date:	14-Apr-2006				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level II - Audit Inspection				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	FLDRAN				F Name:	
Date:	04-May-2009				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Announced				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	RECPT				F Name:	
Date:	14-Dec-1995				L Name:	
Action:	TCLASS					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	15-Dec-1994				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:						
Status:	APWRIT				F Name:	
Date:	14-Dec-1999				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Approval of Plan					
RAO Class:	C1					
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	23-Dec-2002				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	10-Jun-1998				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:						
Status:	CSRCVD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	03-Nov-2006 RAM				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 21-Mar-2019 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 30-Apr-2009 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 09-May-2007 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 21-Mar-2019 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 10-Apr-2012 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	RMRINT				F Name:	
Date:	30-Apr-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	SNAUDI				F Name:	
Date:	04-May-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level II - Audit Inspection					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	FLDRAN				F Name:	
Date:	14-Apr-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	NAFNVD				F Name:	
Date:	26-May-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS10					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	APWRIT				F Name:	
Date:	19-Jul-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Approval of Plan					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APWRT				F Name:	
Date:	15-Dec-1994				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Written Approval of Plan	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ISSUED				F Name:	
Date:	15-Mar-1993				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	SOW				F Name:	
Date:	07-Nov-1997				L Name:	
Action:	PHASII					
Action Description:					Phase 2	
Status Description:					Scope of Work Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	18-Jun-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	30-Sep-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Oct-2010				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	18-Jun-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	03-Oct-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	28-Dec-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LNKVTC				F Name:	
Date:	24-Sep-1998				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via Tier Classification Submittal					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TIER1B				F Name:	
Date:	14-Dec-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	02-Oct-2001				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Completion Statement Received					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	URAMNT				F Name:	
Date:	12-Apr-2001				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Notification of URAM Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	06-Feb-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	PLANWR				F Name:	
Date:	14-Dec-1998				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	12-Feb-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	06-Aug-2004				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	IMRCD				F Name:	
Date:	16-Aug-2011				L Name:	
Action:	RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RAORCD				F Name:	
Date:	31-Jan-2003				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	19-Mar-2013				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	20-Mar-2014				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	01-Apr-2016				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	12-Apr-2011				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	18-Apr-2000 PHASIV				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 20-Mar-2014 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 01-Apr-2016 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 06-Jul-2017 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 28-Dec-2011 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 16-Aug-2011 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	RMRINT				F Name:	
Date:	11-Nov-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSEVAL				F Name:	
Date:	17-Aug-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	FLDRUN				F Name:	
Date:	23-Feb-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	DEPDIS				F Name:	
Date:	12-Jan-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	DEP Disagrees with Classification					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	REVRCD				F Name:	
Date:	23-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	28-Apr-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Mar-2020				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	05-Aug-2005				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	25-Oct-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	11-Nov-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRFIN				F Name:	
Date:	06-Jul-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Final Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	12-Feb-2008				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	12-Mar-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	10-Apr-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	13-Mar-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PEREFF				F Name:	
Date:	10-Apr-1996				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Release (BWSC) Detail						
Prim ID:	3-0004339				Category:	NONE
Current Status:	RAO				Phase:	PHASE V
Current St Desc:	Response Action Outcome				RAO Class:	C1
Current Date:	31-Jan-2003				OHM:	Oil and Hazardous Material
OFC Notification:	15-Mar-1993					
Phase Desc:	Operation, Maintenance and/or Monitoring					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Other Rela:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
44	1 of 2	WNW	0.17 / 880.39	190.99 / -3	RESIDENCE 47 MARLBOROUGH RD STOW MA	LAST

RTN: 2-0013499
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 10/3/2001
Notification Date: 9/27/2000
RAO Class: A2
Chemical Type: Oil
Reporting Category: TWO HR
Site Name (EEA Data Portal): RESIDENCE
Release Add (EEA Data Portal): 47 MARLBOROUGH RD
City/Town (EEA Data Portal): STOW
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013499>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013499>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 03-Oct-2001
OFC Notification: 27-Sep-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

Chemical Information

Chemical: #2 FUEL OIL
Amount: 65
Units: GAL

Chemical: TPH
Amount: 0.4
Units: PPM

Action Information

Date: 08-May-2003
Action: AUDCOM
Action Description:
Status: NOA
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 03-Oct-2001
Action: IRA
Action Description: Immediate Response Action
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 01-Dec-2000
Action: IRA
Action Description: Immediate Response Action
Status: PLANWR
Status Description: Written Plan Received

First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	08-Aug-2003				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUCS					
Status Description:						
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Jul-2001				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	IHEVAL					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	14-Aug-2001				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	10-Jan-2001				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	09-Jun-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	ACTAUD					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	27-Sep-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDDO					
Status Description:	Field Response - Direct Oversight					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Jan-2001				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Jul-2001				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	03-Oct-2001				First Name:	
Action:	RAO				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	15-May-2003				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	03-Oct-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Jun-2003				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Oct-2001				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	07-Nov-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	05-Oct-2000				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	27-Sep-2000				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	05-Dec-2000				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	27-Sep-2000				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	07-Nov-2000				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	27-Sep-2000				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	FLDISS					
Status Description:	Field NOR Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	23-Oct-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	12-Oct-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	28-Sep-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

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2 of 2

WNW

0.17 /
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47 MARLBOROUGH RD
STOW MA

RELEASE

RTN:	2-0013499	Phase:	
Compliance Date:	10/3/2001	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	RESIDENTIAL
Notification Date:	9/27/2000	Site Name (BWSC):	RESIDENCE
Source:	AST	Address (BWSC):	47 MARLBOROUGH RD
Reporting Category:	TWO HR	Town (BWSC):	STOW
Site (EEA Data):	RESIDENCE	Zip Code (BWSC):	01775-0000
Rel Add(EEA Data):	47 MARLBOROUGH RD	OFC Town (BWSC):	STOW
Town (EEA Data):	STOW		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013499		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013499		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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(BWSC)

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 65
Units: GAL

Chemical: TPH
Amount: 0.4
Units: PPM

Action Information (BWSC)

Status: NAFNON **F Name:**
Date: 09-Jun-2003 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ACTAUD **F Name:**
Date: 09-Jun-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level III - Comprehensive Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 09-Oct-2001 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 07-Nov-2000 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 03-Oct-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 10-Jan-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 27-Sep-2000 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FLDRAN				F Name:	
Date:	15-May-2003				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLOFF				F Name:	
Date:	03-Oct-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	05-Oct-2000				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	APORAL				F Name:	
Date:	27-Sep-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FLDISS				F Name:	
Date:	27-Sep-2000				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Field NOR Issued					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FLDDO				F Name:	
Date:	27-Sep-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLOFF				F Name:	
Date:	12-Oct-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	05-Dec-2000				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	AFUCS				F Name:	
Date:	08-Aug-2003				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	28-Sep-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PLANWR				F Name:	
Date:	01-Dec-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORAL				F Name:	
Date:	07-Nov-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	IHEVAL				F Name:	
Date:	30-Jul-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	03-Oct-2001				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDRUN				F Name:	
Date:	23-Oct-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	NOA				F Name:	
Date:	08-May-2003				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	30-Jan-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: STRCVD **F Name:**
Date: 30-Jul-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ALSENT **F Name:**
Date: 14-Aug-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 03-Oct-2001 **OHM:** Oil
OFC Notification: 27-Sep-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

45	1 of 6	ESE	0.29 / 1,556.57	134.80 / -59	RTE 20 475 BOSTON POST RD SUDBURY MA	LUST
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RTN: 3-0015951 **Phase:**
Compliance Status: RAO **Location Type(s):** COMMERCIAL
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** RTE 20
Compliance Date: 10/3/2007 **Address (BWSC):** 475 BOSTON POST RD
Notification Date: 1/28/1998 **Town (BWSC):** SUDBURY
RAO Class: TF **Zip Code (BWSC):** 01776-0000
Chemical Type: Oil **OFC Town (BWSC):** SUDBURY
Reporting Category: 72 HR **Source(s):** UST
Site Name (EEA Data Portal): RTE 20
Release Add (EEA Data Portal): 475 BOSTON POST RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: Temporary Solution Permanent Solution Feasible
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015951>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015951>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** TF
Current Date: 03-Oct-2007 **OHM:** Oil
OFC Notification: 28-Jan-1998
Phase Desc:
RAO Class Desc: Temporary Solution Permanent Solution Feasible
Other Rela:

Chemical Information

Chemical: GASOLINE
Amount: 160

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Units:		PPMV				
Chemical:		GASOLINE				
Amount:		100				
Units:		PPMV				
<u>Action Information</u>						
Date:	23-Jan-2007				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		AMEND				
Status Description:		Amendment Received or Issued (LLE or HLE)				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	04-Apr-2005				First Name:	
Action:	IRA				Last Name:	
Action Description:		Immediate Response Action				
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	24-Apr-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:		Release Abatement Measure				
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	15-Aug-2001				First Name:	
Action:	PHASII				Last Name:	
Action Description:		Phase 2				
Status:		NDMDRC				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	27-Jan-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:		Release Abatement Measure				
Status:		PLANWR				
Status Description:		Written Plan Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	10-May-1999				First Name:	
Action:	TCLASS				Last Name:	
Action Description:		Tier Classification				
Status:		RECPT				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	30-Dec-2005				First Name:	
Action:	PHASII				Last Name:	
Action Description:		Phase 2				
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:	01-Apr-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:		Response Action Outcome -RAO				
Status:		IMRCD				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	14-Apr-2005				First Name:	
Action:	TCLASS				Last Name:	
Action Description:					Tier Classification	
Status:					PEREXT	
Status Description:					Permit Extension Received (retired)	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	20-Apr-2001				First Name:	
Action:	PHASII				Last Name:	
Action Description:					Phase 2	
Status:					SOW	
Status Description:					Scope of Work Received	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	08-Oct-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	01-Sep-1999				First Name:	
Action:	TCLASS				Last Name:	
Action Description:					Tier Classification	
Status:					PEREFF	
Status Description:					Permit Effective Date (retired)	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	12-Jan-2018				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:					NOEC	
Status Description:						
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:					First Name:	
Action:	BWS20				Last Name:	
Action Description:						
Status:					APPROV	
Status Description:						
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	10-May-1999				First Name:	
Action:	PHASEI				Last Name:	
Action Description:					Phase 1	
Status:					CSRCVD	
Status Description:					Completion Statement Received	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	23-Apr-2001				First Name:	
Action:	PHASII				Last Name:	
Action Description:					Phase 2	
Status:					NDMDRC	
Status Description:					Notice of Delay in Meeting RA Deadline Received	
RAO Class:					TF	
RAO Class Desc:					Temporary Solution Permanent Solution Feasible	
Date:	06-Jan-2000				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	06-Jan-1999				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	STMRET					
Status Description:	Submittal Retracted					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	28-Feb-2006				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	31-Aug-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	14-Apr-1998				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	23-Mar-1999				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NON					
Status Description:						
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	28-Jan-1998				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	06-Mar-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Date:	03-Oct-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	TF					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	08-Dec-2005				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	ACOP					
Status Description:						
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	03-Feb-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	31-Aug-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	14-Apr-1998				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	23-Sep-2005				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NOEC					
Status Description:						
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	22-Nov-2016				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NON					
Status Description:						
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	17-Feb-1998				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:	01-Apr-2008				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TF					
RAO Class Desc:		Temporary Solution	Permanent Solution	Feasible		
Date:					First Name:	
Action:	BWS03				Last Name:	
Action Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		APPROV				
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:		28-Jan-1998			First Name:	
Action:		IRA			Last Name:	
Action Description:		Immediate Response Action				
Status:		ASSESS				
Status Description:		IRA Assessment Only				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:		30-Mar-2006			First Name:	
Action:		PHASIV			Last Name:	
Action Description:		Phase 4				
Status:		PLANWR				
Status Description:		Written Plan Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:		17-Feb-1998			First Name:	
Action:		C&E			Last Name:	
Action Description:						
Status:		INTLET				
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:		10-Jan-2003			First Name:	
Action:		C&E			Last Name:	
Action Description:						
Status:		NON				
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Date:		10-May-1999			First Name:	
Action:		TCLASS			Last Name:	
Action Description:		Tier Classification				
Status:		TIER1C				
Status Description:		Tier 1C Classification (retired)				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				

[45](#) 2 of 6 **ESE** 0.29 / 1,556.57 134.80 / -59 **RTE 20**
475 BOSTON POST RD
SUDBURY MA **LUST**

RTN: 3-0015872 **Phase:**

Compliance Status: RAO **Location Type(s):** COMMERCIAL

Compl Status Desc: Response Action Outcome **Site Name (BWSC):** RTE 20

Compliance Date: 3/3/1998 **Address (BWSC):** 475 BOSTON POST RD

Notification Date: 12/30/1997 **Town (BWSC):** SUDBURY

RAO Class: A2 **Zip Code (BWSC):** 01776-0000

Chemical Type: Oil **OFC Town (BWSC):** SUDBURY

Reporting Category: TWO HR **Source(s):** UST

Site Name (EEA Data Portal): RTE 20

Release Add (EEA Data Portal): 475 BOSTON POST RD

City/Town (EEA Data Portal): SUDBURY

Phase Desc:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015872>

Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015872>

Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 03-Mar-1998
OFC Notification: 30-Dec-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

Chemical Information

Chemical: DIESEL FUEL
Amount: 50
Units: GAL

Action Information

Date: 30-Dec-1997
Action: REL
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 30-Dec-1997
Action: IRA
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 22-Jan-1998
Action: NOR
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 03-Mar-1998
Action: RAO
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 03-Mar-1998
Action: RNF
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

[45](#) 3 of 6 **ESE** 0.29 / 1,556.57 134.80 / -59 **RTE 20**
475 BOSTON POST RD
SUDBURY MA 01776-0000 **LST**

Site No: 3-0015872 **Initial Status Dt:** 12/30/1998
Source: UST **Official Notifi Dt:** 12/30/1997

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release Type:	RAO			Current Date:	3/3/1998	
Chemical Type:	Oil			ROA Class:	A2	
Category:	TWO HR			Phase:		
ROA Class Desc:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.					
Phase Desc:						
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.					
Status Desc:	Response Action Outcome					
Document URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0015872					
Location Type:	COMMERCIAL					

Chemicals Information

Chemical:	DIESEL FUEL
Amount:	50
Units:	GAL

Response Action

Response Action Type:	RNF Release Notification Form Received
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	03/03/1998
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	REL Potential Release or Threat of Release
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	12/30/1997
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	IRA Immediate Response Action
Status:	APORAL Oral Approval of Plan or Action
Submittal Date:	12/30/1997
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	RAO Response Action Outcome - RAO
Status:	RAORCD RAO Statement Received
Submittal Date:	03/03/1998
RAO Class:	A2
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation:	NONE

Licensed Site Professional

LSP No:	3163
LSP Name:	BETTERS, WILLIAM J

RAO Detail

Class:	A2
Method:	1
GW Category:	1
Soil Category:	2
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
45	4 of 6	ESE	0.29 / 1,556.57	134.80 / -59	RTE 20 475 BOSTON POST RD SUDBURY MA 01776-0000	LST

Site No: 3-0015951
Source: UST
Release Type: RAO
Chemical Type: Oil
Category: 72 HR
ROA Class Desc:

Initial Status Dt: 1/28/1999
Official Notifi Dt: 1/28/1998
Current Date: 10/3/2007
ROA Class: C1
Phase:

A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.

Phase Desc:
Release Type Desc:

(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0015951>
Location Type: COMMERCIAL

Chemicals Information

Chemical: GASOLINE
Amount: 100
Units: PPMV

Chemical: GASOLINE
Amount: 160
Units: PPMV

Response Action

Response Action Type: RAO Response Action Outcome - RAO
Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 10/08/2008
RAO Class: C1

RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.

Activity and Use Limitation: NONE

Response Action Type: PHASIV Phase 4
Status: CSRCVD Completion Statement Received
Submittal Date: 04/01/2008

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHSIII Phase 3
Status: CSRCVD Completion Statement Received
Submittal Date: 02/28/2006

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASII Phase 2
Status: CSRCVD Completion Statement Received
Submittal Date: 12/30/2005

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: TCLASS Tier Classification
Status: PEREXT Permit Extension Received
Submittal Date: 04/14/2005

RAO Class:
RAO Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 04/04/2005
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASEI Phase 1
Status: CSRCVD Completion Statement Received
Submittal Date: 05/10/1999
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/28/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 04/24/2000
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: STMRET Submittal Retracted
Submittal Date: 01/06/1999
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 04/14/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 3163
LSP Name: BETTERS, WILLIAM J

LSP No: 2173
LSP Name: MACDONALD, DAVID R

RAO Detail

Class: C1
Method: 3
GW Category: 1
Soil Category: 1
RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.

Class: A2
Method: 1
GW Category: 1
Soil Category: 2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Tier Classification Detail

Imminent Hazard: NO
Zone2: YES
Numerical Rank Scoresheet Totals:
Numerical Rank Scoresheet II: 115
Numerical Rank Scoresheet III: 67
Numerical Rank Scoresheet IV: 95
Numerical Rank Scoresheet V: 20
Numerical Rank Scoresheet VI: 0

45	5 of 6	ESE	0.29 / 1,556.57	134.80 / -59	RTE 20 475 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0015872	Phase:	
Compliance Date:	3/3/1998	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	12/30/1997	Site Name (BWSC):	RTE 20
Source:	UST	Address (BWSC):	475 BOSTON POST RD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	RTE 20	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	475 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015872		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015872		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 50
Units: GAL

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	03-Mar-1998	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	REPORT	F Name:	
Date:	30-Dec-1997	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	APORAL	F Name:	
Date:	30-Dec-1997	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 22-Jan-1998 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 03-Mar-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 03-Mar-1998 **OHM:** Oil
OFC Notification: 30-Dec-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

45	6 of 6	ESE	0.29 / 1,556.57	134.80 / -59	RTE 20 475 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0015951 **Phase:**
Compliance Date: 10/3/2007 **RAO Class:** TF
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 1/28/1998 **Site Name (BWSC):** RTE 20
Source: UST **Address (BWSC):** 475 BOSTON POST RD
Reporting Category: 72 HR **Town (BWSC):** SUDBURY
Site (EEA Data): RTE 20 **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 475 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: Temporary Solution Permanent Solution Feasible
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015951>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015951>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 160
Units: PPMV

Chemical: GASOLINE
Amount: 100
Units: PPMV

Action Information (BWSC)

Status: AMEND **F Name:**
Date: 23-Jan-2007 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	C&E					
Action Description:						
Status Description:		Amendment Received or Issued (LLE or HLE)				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	CSRCVD			F Name:		
Date:	04-Apr-2005			L Name:		
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	CSRCVD			F Name:		
Date:	01-Apr-2008			L Name:		
Action:	PHASIV					
Action Description:		Phase 4				
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	IMRCD			F Name:		
Date:	06-Mar-2019			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	NON			F Name:		
Date:	22-Nov-2016			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	PEREFF			F Name:		
Date:	01-Sep-1999			L Name:		
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	NON			F Name:		
Date:	10-Jan-2003			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	NON			F Name:		
Date:	23-Mar-1999			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:	ASSESS			F Name:		
Date:	28-Jan-1998			L Name:		
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		IRA Assessment Only				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:	SOW				F Name:	
Date:	20-Apr-2001				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	RAORCD				F Name:	
Date:	14-Apr-1998				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	RAORCD				F Name:	
Date:	03-Oct-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	PEREXT				F Name:	
Date:	14-Apr-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	TIER1C				F Name:	
Date:	10-May-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	CSRCVD				F Name:	
Date:	10-May-1999				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	PLANWR				F Name:	
Date:	30-Mar-2006				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	IMRCD				F Name:	
Date:	31-Aug-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	CSRCVD				F Name:	
Date:	30-Dec-2005				L Name:	
Action:	PHASII					
Action Description:	Phase 2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Completion Statement Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		NDMDRC			F Name:	
Date:		15-Aug-2001			L Name:	
Action:		PHASII				
Action Description:		Phase 2				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		APPROV			F Name:	
Date:		L Name:				
Action:		BWS03				
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		APPROV			F Name:	
Date:		L Name:				
Action:		BWS20				
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		ACOP			F Name:	
Date:		08-Dec-2005			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		INTLET			F Name:	
Date:		17-Feb-1998			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		NOEC			F Name:	
Date:		12-Jan-2018			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		ISSUED			F Name:	
Date:		17-Feb-1998			L Name:	
Action:		NOR				
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		FEEREC			F Name:	
Date:		03-Feb-1999			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Fee Received				
RAO Class:		TF				
RAO Class Desc:		Temporary Solution Permanent Solution Feasible				
Status:		STRCVD			F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	06-Jan-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	IMRCD				F Name:	
Date:	01-Apr-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	IMRCD				F Name:	
Date:	08-Oct-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	STMRET				F Name:	
Date:	06-Jan-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Submittal Retracted					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	TSEVAL				F Name:	
Date:	31-Aug-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	REPORT				F Name:	
Date:	14-Apr-1998				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	RECPT				F Name:	
Date:	10-May-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	NOEC				F Name:	
Date:	23-Sep-2005				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	TF					
RAO Class Desc:	Temporary Solution Permanent Solution Feasible					
Status:	CSRCVD				F Name:	
Date:	24-Apr-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	TF					

RAO Class Desc: Temporary Solution Permanent Solution Feasible

Status: NMDRC **F Name:**
Date: 23-Apr-2001 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Notice of Delay in Meeting RA Deadline Received
RAO Class: TF
RAO Class Desc: Temporary Solution Permanent Solution Feasible

Status: CSRCVD **F Name:**
Date: 28-Feb-2006 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: TF
RAO Class Desc: Temporary Solution Permanent Solution Feasible

Status: PLANWR **F Name:**
Date: 27-Jan-1999 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: TF
RAO Class Desc: Temporary Solution Permanent Solution Feasible

Status: REPORT **F Name:**
Date: 28-Jan-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: TF
RAO Class Desc: Temporary Solution Permanent Solution Feasible

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** TF
Current Date: 03-Oct-2007 **OHM:** Oil
OFC Notification: 28-Jan-1998
Phase Desc:
RAO Class Desc: Temporary Solution Permanent Solution Feasible
Other Rela:

46	1 of 1	ESE	0.29 / 1,555.93	134.80 / -59	SOUSA 477 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0000602 **Phase:**
Compliance Date: 6/23/1998 **RAO Class:**
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 1/15/1990 **Site Name (BWSC):** SOUSA
Source: **Address (BWSC):** 477 BOSTON POST RD
Reporting Category: NONE **Town (BWSC):** SUDBURY
Site (EEA Data): SOUSA **Zip Code (BWSC):** 01776
Rel Add(EEA Data): 477 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0000602>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0000602>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status: TCTRNS **F Name:**
Date: 15-Jan-1990 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 14-Jan-1993 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: RAOEQ **F Name:**
Date: 23-Jun-1998 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 24-Oct-1990 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 12-Oct-1990 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:**
Current Date: 23-Jun-1998 **OHM:** Oil
OFC Notification: 15-Jan-1990
Phase Desc:
RAO Class Desc:
Other Rela:

47	1 of 5	ESE	0.26 / 1,370.95	136.74 / -57	CUMBERLAND FARMS/GULF 470 BOSTON POST RD SUDBURY MA	LUST
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RTN: 3-0004202 **Phase:** PHASE V
Compliance Status: RAO **Location Type(s):** GASSTATION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Compl Status Desc:	Response Action Outcome				Site Name (BWSC): CUMBERLAND FARMS/GULF	
Compliance Date:	2/5/2009				Address (BWSC): 470 BOSTON POST RD	
Notification Date:	12/10/1992				Town (BWSC): SUDBURY	
RAO Class:	C1				Zip Code (BWSC): 01776-0000	
Chemical Type:	Oil				OFC Town (BWSC): SUDBURY	
Reporting Category:	NONE				Source(s): UST	
Site Name (EEA Data Portal):	CUMBERLAND FARMS/GULF					
Release Add (EEA Data Portal):	470 BOSTON POST RD					
City/Town (EEA Data Portal):	SUDBURY					
Phase Desc:	Operation, Maintenance and/or Monitoring					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004202					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004202					
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Release (BWSC) Detail

Prim ID:	3-0004202	Category:	NONE
Current Status:	RAO	Phase:	PHASE V
Current Status Desc:	Response Action Outcome	RAO Class:	C1
Current Date:	05-Feb-2009	OHM:	Oil
OFC Notification:	10-Dec-1992		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Other Rela:

Chemical Information

Chemical:	GASOLINE
Amount:	
Units:	

Action Information

Date:		First Name:	
Action:	BWS03	Last Name:	
Action Description:			
Status:	APPROV		
Status Description:			
RAO Class:	C1		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		
Date:	06-Feb-2019	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	C1		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Date: 16-Aug-2018 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 11-Feb-2014 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 04-Nov-1997 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 05-Jul-2002 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 18-Jul-2008 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 22-Dec-2000 **First Name:**
Action: PHASIV **Last Name:**
Action Description: Phase 4
Status: PLANWR
Status Description: Written Plan Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	21-Dec-1999				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	NDMDRC					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Feb-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-May-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	06-Feb-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	24-Jul-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Dec-2001				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	23-Jan-2007				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Jul-2007				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Aug-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Nov-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	04-Aug-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Jun-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	12-Oct-2011				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LSPMP					
Status Description:	LSP of Record Change via Minor Permit Mod (retired)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	27-Dec-2004				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	14-Jan-2005				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	REMOPS					
Status Description:	Remedy Operation Status (ROS) Submittal Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	14-Jan-2008				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	20-Jan-2006				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	23-Feb-2016				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		TCTRAN				
Status Description:		Tier Classification Transfer				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	09-Nov-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	20-Jan-2003				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:		PEREFF				
Status Description:		Permit Effective Date (retired)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	10-Mar-2016				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	10-Dec-1992				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	12-Oct-2011				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:		LNKVMP				
Status Description:		RTN Linked to TCLASS Via Minor Permit Modification (retired)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	08-Aug-1997				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Jul-2001				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Jul-2008				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-May-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Nov-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	06-Apr-2004				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 15-Aug-2013 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: LNKVIC
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 14-Jan-2005 **First Name:**
Action: PHASIV **Last Name:**
Action Description: Phase 4
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 29-Jul-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 05-Aug-2016 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 20-Aug-2014 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 18-Jun-2004 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: IMRCD
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	06-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Feb-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	04-Aug-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Nov-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	03-May-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Dec-1997				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	12-Jan-2004				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Dec-2000				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Oct-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	08-Feb-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Feb-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	05-Feb-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	11-Feb-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	28-Apr-2016				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TCTRAN					
Status Description:	Tier Classification Transfer					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	31-Jul-2006				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	03-May-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	04-May-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	05-Aug-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	07-Aug-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	29-Jan-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	08-Feb-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		RMRINT				
Status Description:		RMR Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	08-Aug-1997				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	20-Dec-2002				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	24-Nov-2009				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	04-May-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	10-Dec-1992				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Jan-2008				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Jul-2007				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Jun-2004				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Date: 06-Feb-2019 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 09-Feb-2018 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 05-Nov-2013 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 07-Nov-2012 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RMRINT
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 29-Jul-2005 **First Name:**
Action: PHASEV **Last Name:**
Action Description: Phase 5
Status: ROSSTR
Status Description: Remedy Operation Status Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Date: 22-Dec-2000 **First Name:**
Action: PHASII **Last Name:**
Action Description: Phase 2
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	15-Dec-2004				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	23-Jan-2007				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	31-Jul-2006				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	02-Feb-2001				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Aug-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	05-Nov-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	08-Aug-1997				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1C					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:					First Name:	
Action:	BWS20				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Jun-2004				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jan-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Aug-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	06-Feb-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	17-Feb-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	07-Aug-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Aug-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Sep-2002				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

[47](#) 2 of 5 **ESE** 0.26 / 1,370.95 136.74 / -57 **CUMBERLAND FARMS**
470 BOSTON POST ROAD **RELEASE**
SUDBURY MA

RTN:	3-0029588	Phase:	
Compliance Date:	8/15/2013	RAO Class:	
Compliance Status:	RTN CLOSED	Chemical Type:	Hazardous Material
Compl Status Desc:	Release Tracking Number Closed	Location Type:	COMMERCIAL
Notification Date:	10/18/2010	Site Name (BWSC):	CUMBERLAND FARMS
Source:	UNKNOWN	Address (BWSC):	470 BOSTON POST ROAD
Reporting Category:	72 HR	Town (BWSC):	SUDBURY
Site (EEA Data):	CUMBERLAND FARMS	Zip Code (BWSC):	
Rel Add(EEA Data):	470 BOSTON POST ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:

RAO Class Desc:

Info URL:

<https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0029588>

Docs URL:

<https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0029588>

Report Source:

Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical:

METHYL TERT-BUTYL ETHER

Amount:

380

Units:

UG/L

Action Information (BWSC)

Status:

CSRCVD

F Name:

Date:

15-Aug-2013

L Name:

Action:

IRA

Action Description:

Immediate Response Action

Status Description:

Completion Statement Received

RAO Class:

RAO Class Desc:

Status:

STRCVD

F Name:

Date:

15-Feb-2011

L Name:

Action:

IRA

Action Description:

Immediate Response Action

Status Description:

Status or Interim Report Received

RAO Class:

RAO Class Desc:

Status:

TSAUD

F Name:

Date:

16-Feb-2011

L Name:

Action:

IRA

Action Description:

Immediate Response Action

Status Description:

Level I - Technical Screen Audit

RAO Class:

RAO Class Desc:

Status:

TSAUD

F Name:

Date:

01-May-2014

L Name:

Action:

IRA

Action Description:

Immediate Response Action

Status Description:

Level I - Technical Screen Audit

RAO Class:

RAO Class Desc:

Status:

REPORT

F Name:

Date:

18-Oct-2010

L Name:

Action:

REL

Action Description:

Release Disposition

Status Description:

Reportable Release under MGL 21E

RAO Class:

RAO Class Desc:

Status:

LNKVMP

F Name:

Date:

12-Oct-2011

L Name:

Action:

TCLASS

Action Description:

Tier Classification

Status Description:

RTN Linked to TCLASS Via Minor Permit Modification (retired)

RAO Class:

RAO Class Desc:

Status:

STRCVD

F Name:

Date:

14-Feb-2013

L Name:

Action:

IRA

Action Description:

Immediate Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	03-Jan-2011				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	18-Oct-2010				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	06-Sep-2012				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	16-Aug-2011				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	19-Nov-2010				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	06-Apr-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Status:	TCTRAN				F Name:	
Date:	23-Feb-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier Classification Transfer					
RAO Class:						
RAO Class Desc:						
Status:	TCTRAN				F Name:	
Date:	28-Apr-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier Classification Transfer					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	15-Aug-2011 IRA				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 06-Sep-2012 IRA		Immediate Response Action Status or Interim Report Received		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 16-Dec-2010 RNF		Release Notification Form Received Reportable Release under MGL 21E		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 16-Dec-2010 RNFE		Release Notification Transmittal, Notice, or Notification Received		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PEREFF 20-Jan-2003 TCLASS		Tier Classification Permit Effective Date (retired)		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 08-Aug-1997 TCLASS		Tier Classification Transmittal, Notice, or Notification Received		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PLANWR 21-Dec-2010 IRA		Immediate Response Action Written Plan Received		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 14-Feb-2013 IRA		Immediate Response Action RMR Interim Report Received		F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RTCLSS 12-Oct-2011 RAONR		RAO Not Required Linked to a Tier Classified Site		F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	LSPMP				F Name:	
Date:	12-Oct-2011				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	LSP of Record Change via Minor Permit Mod (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	15-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	09-Feb-2012				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	13-Feb-2012				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	08-Aug-2011				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Status:	TIER1C				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	RMRFIN				F Name:	
Date:	15-Aug-2013				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	RMR Final Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	09-Feb-2012				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	RMR Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	RTCLSS				F Name:	
Date:	15-Aug-2013				L Name:	
Action:	RAONR					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

Status: LNKVIC **F Name:**
Date: 15-Aug-2013 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class:
RAO Class Desc:

Status: PEREXT **F Name:**
Date: 17-Sep-2002 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Extension Received (retired)
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAONR **Phase:**
Current St Desc: RAO Not Required **RAO Class:**
Current Date: 15-Aug-2013 **OHM:** Hazardous Material
OFC Notification: 18-Oct-2010
Phase Desc:
RAO Class Desc:
Other Rela:

47	3 of 5	ESE	0.26 / 1,370.95	136.74 / -57	CUMBERLAND FARMS 470 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0023429 **Phase:**
Compliance Date: 4/6/2004 **RAO Class:**
Compliance Status: RTN CLOSED **Chemical Type:** Oil
Compl Status Desc: Release Tracking Number Closed **Location Type:** COMMERCIAL
Notification Date: 12/9/2003 **Site Name (BWSC):** CUMBERLAND FARMS
Source: UNKNOWN **Address (BWSC):** 470 BOSTON POST RD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): CUMBERLAND FARMS **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 470 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0023429>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0023429>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE VAPORS
Amount: 1088
Units: PPM

Chemical: PETROLEUM VAPORS
Amount: 500
Units: PPMV

Action Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	LNKVIC				F Name:	
Date:	06-Apr-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	15-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	12-Feb-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	17-Sep-2002				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	20-Jan-2003				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	TCTRAN				F Name:	
Date:	23-Feb-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier Classification Transfer					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	TIER1C				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	APORMD				F Name:	
Date:	14-Jan-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of a Modified Plan					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	TCTRAN				F Name:	
Date:	28-Apr-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier Classification Transfer					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	06-Apr-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	RTCLSS				F Name:	
Date:	06-Apr-2004				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Linked to a Tier Classified Site					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	09-Dec-2003				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	LSPMP				F Name:	
Date:	12-Oct-2011				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	LSP of Record Change via Minor Permit Mod (retired)					
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	09-Dec-2003				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	29-Jan-2004				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	12-Feb-2004				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	15-Aug-2013				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class:
RAO Class Desc:

Status: LNKVMP **F Name:**
Date: 12-Oct-2011 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via Minor Permit Modification (retired)
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAONR **Phase:**
Current St Desc: RAO Not Required **RAO Class:**
Current Date: 06-Apr-2004 **OHM:** Oil
OFC Notification: 09-Dec-2003
Phase Desc:
RAO Class Desc:
Other Rela:

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Site No: 3-0004202 **Initial Status Dt:** 8/2/1997
Source: UST **Official Notifi Dt:** 12/10/1992
Release Type: RAO **Current Date:** 2/5/2009
Chemical Type: Oil **ROA Class:** C1
Category: NONE **Phase:** PHASE V
ROA Class Desc: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.
Phase Desc: Operation, Maintenance, and/or Monitoring. During Phase V, long-term treatment processes are implemented and monitored to track cleanup progress.
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0004202>
Location Type: GASSTATION

Chemicals Information

Chemical: GASOLINE
Amount:
Units:

Response Action

Response Action Type: PHASIV Phase 4
Status: CSRCVD Completion Statement Received
Submittal Date: 01/14/2005
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHSIII Phase 3
Status: CSRCVD Completion Statement Received
Submittal Date: 12/22/2000
RAO Class:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Description:
Activity and Use Limitation:

Response Action Type: PHSIII Phase 3
Status: CSRCVD Completion Statement Received
Submittal Date: 06/07/2004

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: TCLASS Tier Classification
Status: TCTRAN
Submittal Date: 04/28/2016

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASEV Phase 5
Status: ROSSTR Remedy Operation Status Report Received
Submittal Date: 07/18/2008

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 02/02/2001

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 12/10/1992

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 08/04/2017

RAO Class: C1
RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.
Activity and Use Limitation: NONE

Response Action Type: PHASII Phase 2
Status: REVRCD Revised Statement or Transmittal Received
Submittal Date: 06/07/2004

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASEI Phase 1
Status: CSRCVD Completion Statement Received
Submittal Date: 08/08/1997

RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 4813
LSP Name: SHEEHAN, KEVIN C

LSP No: N/A
LSP Name: MARIANO, CHRISTOPHER G

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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LSP No: 4284
LSP Name: ROSS, BRUCE C

LSP No: 4396
LSP Name: HORAN, BRIAN J

RAO Detail

Class: C1
Method: 1
GW Category: 1
Soil Category: 3
RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.

Tier Classification Detail

Imminent Hazard: NO
Zone2: NO
Numerical Rank Scoresheet Totals: 391
Numerical Rank Scoresheet II: 135
Numerical Rank Scoresheet III: 81
Numerical Rank Scoresheet IV: 105
Numerical Rank Scoresheet V: 70
Numerical Rank Scoresheet VI: 0

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RTN:	3-0004202	Phase:	PHASE V
Compliance Date:	2/5/2009	RAO Class:	C1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	GASSTATION
Notification Date:	12/10/1992	Site Name (BWSC):	CUMBERLAND FARMS/GULF
Source:	UST	Address (BWSC):	470 BOSTON POST RD
Reporting Category:	NONE	Town (BWSC):	SUDBURY
Site (EEA Data):	CUMBERLAND FARMS/GULF	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	470 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004202		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004202		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: GASOLINE
Amount:
Units:

Action Information (BWSC)

Status: IMRCD
Date: 05-Jul-2002
F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD			F Name:		
Date:	24-Jul-2003			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD			F Name:		
Date:	18-Dec-2001			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ROSSTR			F Name:		
Date:	14-Jan-2008			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD			F Name:		
Date:	03-May-2013			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD			F Name:		
Date:	13-May-2011			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	IMRCD				F Name:	
Date:	07-Aug-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	05-Nov-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RAORCD				F Name:	
Date:	05-Feb-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	06-Feb-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	06-Feb-2020				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	17-Feb-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	RMRINT				F Name:	
Date:	20-Aug-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSEVAL				F Name:	
Date:	11-Feb-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS20					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ISSUED				F Name:	
Date:	10-Mar-2016				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ISSUED				F Name:	
Date:	10-Dec-1992				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	20-Dec-2002				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ROSSTR				F Name:	
Date:	31-Jul-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	07-Jun-2004				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	06-Feb-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	11-Feb-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	17-Feb-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Nov-2010				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSAUD				F Name:	
Date:	20-Jun-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RECPT				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TCTRAN				F Name:	
Date:	23-Feb-2016				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier Classification Transfer	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	18-Jul-2008				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ROSSTR				F Name:	
Date:	18-Jul-2008				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Remedy Operation Status Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	02-Feb-2001				L Name:	
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	09-Feb-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	03-May-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	04-May-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	04-Aug-2017				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	05-Aug-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	16-Aug-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSEVAL				F Name:	
Date:	06-Feb-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TCTRNS				F Name:	
Date:	10-Dec-1992				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Valid Transition Site (Retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	20-Jul-2007				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ROSSTR				F Name:	
Date:	20-Jan-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANMD				F Name:	
Date:	15-Dec-2004				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANWR				F Name:	
Date:	22-Dec-2000				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	22-Dec-2000				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	06-Feb-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	21-May-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	IMRCD				F Name:	
Date:	20-Aug-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	07-Nov-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LNKVIC				F Name:	
Date:	06-Apr-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LNKVIC				F Name:	
Date:	15-Aug-2013				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LNVKMP				F Name:	
Date:	12-Oct-2011				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via Minor Permit Modification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LSPMP				F Name:	
Date:	12-Oct-2011				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	LSP of Record Change via Minor Permit Mod (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREFF				F Name:	
Date:	20-Jan-2003				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	18-Jun-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	REMOPS				F Name:	
Date:	14-Jan-2005				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status (ROS) Submittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ROSSTR				F Name:	
Date:	23-Jan-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	24-Nov-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	08-Feb-2017				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	11-Aug-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDRUN				F Name:	
Date:	04-Nov-1997				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREFF				F Name:	
Date:	15-Dec-1997				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TCTRAN				F Name:	
Date:	28-Apr-2016				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier Classification Transfer	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	11-Jul-2001				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	27-Dec-2004				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	23-Jan-2007				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ROSSTR				F Name:	
Date:	20-Jul-2007				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Remedy Operation Status Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NDMDRC				F Name:	
Date:	21-Dec-1999				L Name:	
Action:	PHSIII					
Action Description:					Phase 3	
Status Description:					Notice of Delay in Meeting RA Deadline Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	08-Feb-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	04-May-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	29-Jul-2009				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	05-Aug-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	09-Nov-2011				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREXT				F Name:	
Date:	17-Sep-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Extension Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TIER1C				F Name:	
Date:	08-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1C Classification (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	14-Jan-2008				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	CSRCVD				F Name:	
Date:	14-Jan-2005				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANWR				F Name:	
Date:	20-Oct-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	16-Aug-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	07-Nov-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	09-Nov-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	07-Aug-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	RMRINT				F Name:	
Date:	05-Nov-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	12-Jan-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	31-Jul-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ROSSTR				F Name:	
Date:	29-Jul-2005				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	22-Dec-2000				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	REVRCD				F Name:	
Date:	07-Jun-2004				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	29-Jan-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	04-Aug-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	11-Aug-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	29-Jan-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	09-Feb-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	11-Feb-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Release (BWSC) Detail

Prim ID:	3-0004202	Category:	NONE
Current Status:	RAO	Phase:	PHASE V
Current St Desc:	Response Action Outcome	RAO Class:	C1
Current Date:	05-Feb-2009	OHM:	Oil
OFC Notification:	10-Dec-1992		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Other Rela:

48	1 of 3	ESE	0.26 / 1,390.43	137.11 / -57	MOBIL STATION 465 BOSTON POST RD SUDBURY MA 01776-0000	LST
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Site No:	3-0002341	Initial Status Dt:	7/15/1995
Source:	PIPE,TANK,UST,USTOTHER	Official Notifi Dt:	2/12/1990
Release Type:	RAO	Current Date:	9/20/2006
Chemical Type:	Oil	ROA Class:	TN
Category:	NONE	Phase:	
ROA Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Phase Desc:			
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.		
Status Desc:	Response Action Outcome		
Document URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0002341		
Location Type:			

Chemicals Information

Chemical:	UNIDENTIFIED PETROLEUM PRODUCT
Amount:	
Units:	

Response Action

Response Action Type:	RAM Release Abatement Measure
Status:	CSRCVD Completion Statement Received
Submittal Date:	12/22/2014
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	PHSIII Phase 3
Status:	CSRCVD Completion Statement Received
Submittal Date:	05/28/1999
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	PHASIV Phase 4
Status:	CSRCVD Completion Statement Received
Submittal Date:	03/21/2003
RAO Class:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 02/12/1990

RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 08/29/2017
RAO Class: TN
RAO Description: Temporary Solution Permanent Solution Not Feasible
Activity and Use Limitation: NONE

Response Action Type: PHASEV Phase 5
Status: CSRCVD Completion Statement Received
Submittal Date: 09/20/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: TCLASS Tier Classification
Status: PEREFF Permit Effective Date
Submittal Date: 05/10/2002
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 9969
LSP Name: PARKER, SCOTT K

LSP No: 9814
LSP Name: HENRY, ERIC D

LSP No: 4284
LSP Name: ROSS, BRUCE C

LSP No: N/A
LSP Name: SWANSON, WILLIAM R

LSP No: 4409
LSP Name: ZIGMONT, JAMES H

RAO Detail

Class: TN
Method: 1
GW Category: 1
Soil Category: 1
RAO Description: Temporary Solution Permanent Solution Not Feasible

48	2 of 3	ESE	0.26 / 1,390.43	137.11 / -57	MOBIL STATION 465 BOSTON POST RD SUDBURY MA	LUST
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RTN: 3-0002341	Phase:
Compliance Status: RAO	Location Type(s):
Compl Status Desc: Response Action Outcome	Site Name (BWSC): MOBIL STATION
Compliance Date: 9/20/2006	Address (BWSC): 465 BOSTON POST RD
Notification Date: 2/12/1990	Town (BWSC): SUDBURY
RAO Class: TN	Zip Code (BWSC): 01776-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical Type:	Oil				OFC Town (BWSC):	SUDBURY
Reporting Category:	NONE				Source(s):	PIPE, TANK, UST, USTOTHER
Site Name (EEA Data Portal):		MOBIL STATION				
Release Add (EEA Data Portal):		465 BOSTON POST RD				
City/Town (EEA Data Portal):		SUDBURY				
Phase Desc:						
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Info URL:		https://eeonline.eea.state.ma.us/Portal#!/wastesite/3-0002341				
Docs URL:		https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002341				
Source File:		Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)				

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	TN
Current Date:	20-Sep-2006	OHM:	Oil
OFC Notification:	12-Feb-1990		
Phase Desc:			
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Other Rela:			

Chemical Information

Chemical:	UNIDENTIFIED PETROLEUM PRODUCT
Amount:	
Units:	

Action Information

Date:	18-Mar-2005	First Name:	
Action:	PHASEV	Last Name:	
Action Description:	Phase 5		
Status:	ROSSTR		
Status Description:	Remedy Operation Status Report Received		
RAO Class:	TN		
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Date:	19-Mar-2008	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	TN		
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Date:	04-Sep-2019	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	TN		
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Date:	07-Sep-2010	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	TN		
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Date:	09-Sep-2008	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	13-Mar-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Mar-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	30-Aug-1999				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	30-Oct-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	07-Oct-2013				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Mar-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	29-Aug-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	03-Mar-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Dec-2014				First Name:	
Action:	BOL				Last Name:	
Action Description:	Bill of Lading					
Status:	SHPFAC					
Status Description:	Remediation was Shipped to a Facility					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	28-Oct-1992				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	FLDREQ					
Status Description:						
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Sep-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	02-Mar-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	PUBCOM					
Status Description:	Public Comment Period Initiated on Submittal					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	05-Mar-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	04-Jan-2002				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	30-Oct-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	RMRWPR					
Status Description:	Remedial Additives Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	22-Mar-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	22-Sep-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:					First Name:	
Action:	BWS20				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	20-Sep-2004				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	14-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	04-Sep-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	22-Dec-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	31-Oct-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	03-Mar-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Date:	18-Mar-2016				First Name:	
Action:	RAO				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	11-Sep-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	18-Mar-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	14-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	24-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	22-Jul-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	22-Jul-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					

Date:	22-Jul-1994				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	BWSC05					
Status Description:						
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	04-Dec-2001				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	INTLET					
Status Description:						
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	21-Mar-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	REMOPS					
Status Description:	Remedy Operation Status (ROS) Submittal Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	08-Mar-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	17-Feb-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	05-Mar-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	09-Mar-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	16-Mar-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Mar-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	20-Mar-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	19-Sep-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	19-Sep-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	05-Feb-1998				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:					NON	
Status Description:						
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	21-Mar-2003				First Name:	
Action:	PHASIV				Last Name:	
Action Description:					Phase 4	
Status:					CSRCVD	
Status Description:					Completion Statement Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	19-Sep-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					IMRCD	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	17-Feb-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					RMRINT	
Status Description:					RMR Interim Report Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	18-Mar-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:					Response Action Outcome -RAO	
Status:					TSEVAL	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Date:	14-Nov-2013				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	BOL				Last Name:	
Action Description:	Bill of Lading					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:					First Name:	
Action:	BWS10				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Mar-2004				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	07-Aug-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Mar-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	22-Sep-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Sep-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Mar-2006				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	TN					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	10-Apr-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	20-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	20-Nov-2014				First Name:	
Action:	BOL				Last Name:	
Action Description:	Bill of Lading					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	05-Jun-1996				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	17-Sep-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	30-Jan-2014				First Name:	
Action:	BOL				Last Name:	
Action Description:	Bill of Lading					
Status:	SHPFAC					
Status Description:	Remediation was Shipped to a Facility					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	15-Sep-2005				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	ROSSTR					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	13-Mar-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	20-Sep-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		RAORCD				
Status Description:		RAO Statement Received (retired)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Date:	16-Mar-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	29-Aug-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	12-Feb-1990				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	04-Sep-2001				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	22-Jul-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1B					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Sep-2006				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	28-May-1999				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	04-Oct-2013				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	14-May-1999				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	03-Feb-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	10-May-2002				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Sep-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	19-Mar-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	20-Sep-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	27-Apr-2001				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	12-Feb-1990				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Date:	28-Jul-1999				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				

[48](#) 3 of 3 **ESE** **0.26 / 1,390.43** **137.11 / -57** **MOBIL STATION
465 BOSTON POST RD
SUDBURY MA** **RELEASE**

RTN: 3-0002341 **Phase:**
Compliance Date: 9/20/2006 **RAO Class:** TN
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 2/12/1990 **Site Name (BWSC):** MOBIL STATION
Source: PIPE, TANK, UST, USTOTHER **Address (BWSC):** 465 BOSTON POST RD
Reporting Category: NONE **Town (BWSC):** SUDBURY
Site (EEA Data): MOBIL STATION **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 465 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002341>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002341>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNIDENTIFIED PETROLEUM PRODUCT
Amount:
Units:

Action Information (BWSC)

Status: RECPT **F Name:**
Date: 20-Nov-2014 **L Name:**
Action: BOL
Action Description: Bill of Lading
Status Description: Transmittal, Notice, or Notification Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: SHPFAC **F Name:**
Date: 30-Jan-2014 **L Name:**
Action: BOL
Action Description: Bill of Lading
Status Description: Remediation was Shipped to a Facility
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: APPROV **F Name:**
Date: **L Name:**
Action: BWS20
Action Description:
Status Description:
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: IMRCD **F Name:**
Date: 19-Sep-2003 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: PLANWR **F Name:**
Date: 10-Apr-1998 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Written Plan Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	09-Sep-2008				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	14-Sep-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	20-Sep-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RAORCD				F Name:	
Date:	20-Sep-2006				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RMRINT				F Name:	
Date:	22-Sep-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	TCTRNS				F Name:	
Date:	12-Feb-1990				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Valid Transition Site (Retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	PEREFF				F Name:	
Date:	10-May-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	REVRCD				F Name:	
Date:	04-Jan-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Revised Statement or Transmittal Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	

Status: NON **F Name:**
Date: 05-Feb-1998 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: ROSSTR **F Name:**
Date: 20-Mar-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: CSRCVD **F Name:**
Date: 21-Mar-2003 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Completion Statement Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: CSRCVD **F Name:**
Date: 05-Jun-1996 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: CSRCVD **F Name:**
Date: 03-Feb-2014 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: CSRCVD **F Name:**
Date: 22-Dec-2014 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: IMRCD **F Name:**
Date: 19-Mar-2008 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: IMRCD **F Name:**
Date: 20-Mar-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: IMRCD **F Name:**
Date: 19-Sep-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	22-Sep-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RMRINT				F Name:	
Date:	17-Feb-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RMRINT				F Name:	
Date:	05-Mar-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RECPT				F Name:	
Date:	22-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RECPT				F Name:	
Date:	14-Nov-2013				L Name:	
Action:	BOL					
Action Description:					Bill of Lading	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	CSRCVD				F Name:	
Date:	20-Sep-2006				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Completion Statement Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	20-Sep-2004				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	PLANWR				F Name:	
Date:	30-Aug-1999				L Name:	
Action:	PHASIV					
Action Description:					Phase 4	
Status Description:					Written Plan Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	CSRCVD				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	28-May-1999				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	CSRCVD				F Name:	
Date:	08-Mar-1999				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	PLANWR				F Name:	
Date:	04-Oct-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	PLANWR				F Name:	
Date:	30-Oct-2014				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	IMRCD				F Name:	
Date:	09-Mar-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	IMRCD				F Name:	
Date:	19-Sep-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	RMRINT				F Name:	
Date:	03-Mar-2017				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	RMRINT				F Name:	
Date:	29-Aug-2017				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible					
Status:	RMRINT				F Name:	
Date:	14-Sep-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	PEREXT				F Name:	
Date:	14-May-1999				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	TSAUD				F Name:	
Date:	07-Oct-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	IMRCD				F Name:	
Date:	17-Feb-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	IMRCD				F Name:	
Date:	19-Mar-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	IMRCD				F Name:	
Date:	22-Mar-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	IMRCD				F Name:	
Date:	17-Sep-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	RMRINT				F Name:	
Date:	13-Mar-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	TSEVAL				F Name:	
Date:	18-Mar-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	TN					
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible						
Status:	PEREFF				F Name:	
Date:	04-Sep-2001				L Name:	
Action:	TCLASS					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	FLDREQ				F Name:	
Date:	28-Oct-1992				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	ROSSTR				F Name:	
Date:	18-Mar-2005				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	ROSSTR				F Name:	
Date:	15-Sep-2005				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	SHPFAC				F Name:	
Date:	19-Dec-2014				L Name:	
Action:	BOL					
Action Description:		Bill of Lading				
Status Description:		Remediation was Shipped to a Facility				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	IMRCD				F Name:	
Date:	19-Mar-2004				L Name:	
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	IMRCD				F Name:	
Date:	20-Mar-2007				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	IMRCD				F Name:	
Date:	11-Sep-2009				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:	IMRCD				F Name:	
Date:	24-Sep-2015				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		RMRINT			F Name:	
Date:		04-Sep-2019			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		RMRINT			F Name:	
Date:		20-Sep-2016			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		RMRINT			F Name:	
Date:		20-Sep-2018			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		RMRINT			F Name:	
Date:		24-Sep-2015			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		INTLET			F Name:	
Date:		04-Dec-2001			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		ISSUED			F Name:	
Date:		12-Feb-1990			L Name:	
Action:		NOR				
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		TSAUD			F Name:	
Date:		31-Oct-2014			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		IMRCD			F Name:	
Date:		05-Mar-2013			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution Permanent Solution Not Feasible				
Status:		IMRCD			F Name:	
Date:		13-Mar-2020			L Name:	
Action:		RAO				
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	IMRCD			F Name:		
Date:	07-Sep-2010			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	IMRCD			F Name:		
Date:	20-Sep-2018			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	RMRINT			F Name:		
Date:	20-Mar-2014			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RMR Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	BWSC05			F Name:		
Date:	22-Jul-1994			L Name:		
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	REMOPS			F Name:		
Date:	21-Mar-2003			L Name:		
Action:	PHASEV					
Action Description:		Phase 5				
Status Description:		Remedy Operation Status (ROS) Submittal Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	STRCVD			F Name:		
Date:	07-Aug-1998			L Name:		
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	IMRCD			F Name:		
Date:	20-Mar-2012			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	IMRCD			F Name:		
Date:	20-Mar-2014			L Name:		
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		TN				
RAO Class Desc:		Temporary Solution	Permanent Solution	Not Feasible		
Status:	IMRCD			F Name:		
Date:	29-Aug-2017			L Name:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	04-Sep-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RMRINT				F Name:	
Date:	20-Mar-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	TSEVAL				F Name:	
Date:	19-Sep-2011				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	PEREXT				F Name:	
Date:	27-Apr-2001				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Extension Received (retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	TIER1B				F Name:	
Date:	22-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1B Classification (retired)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS10					
Action Description:						
Status Description:						
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	RMRWPR				F Name:	
Date:	30-Oct-2014				L Name:	
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Remedial Additives Written Plan Received	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	
Status:	IMRCD				F Name:	
Date:	03-Mar-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					TN	
RAO Class Desc:					Temporary Solution Permanent Solution Not Feasible	

Status: IMRCD **F Name:**
Date: 16-Mar-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: IMRCD **F Name:**
Date: 18-Mar-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: PUBCOM **F Name:**
Date: 02-Mar-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Public Comment Period Initiated on Submittal
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: RMRINT **F Name:**
Date: 16-Mar-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: RMRINT **F Name:**
Date: 18-Mar-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: RMRINT **F Name:**
Date: 19-Mar-2019 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: RMRINT **F Name:**
Date: 19-Sep-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: PEREFF **F Name:**
Date: 22-Jul-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Status: PEREFF **F Name:**
Date: 28-Jul-1999 **L Name:**
Action: TCLASS
Action Description: Tier Classification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Permit Effective Date (retired)
RAO Class: TN
RAO Class Desc: Temporary Solution Permanent Solution Not Feasible

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	TN
Current Date:	20-Sep-2006	OHM:	Oil
OFC Notification:	12-Feb-1990		
Phase Desc:			
RAO Class Desc:	Temporary Solution Permanent Solution Not Feasible		
Other Rela:			

49	1 of 5	ESE	0.30 / 1,576.70	139.31 / -54	STORM DRAIN OUTFALL 239 NOBSCOT RD SUDBURY MA	HIST LUST
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Spill ID:	N93-0018	Repo Units Spilled:	-----
Site ID:	3-4668	Act. Qty Spilled:	-----
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	YES	Spill Date:	1/5/1993
Incident:	LEAK	Spill Time:	
Other Incident:		Rport Date:	1/5/1993
Source:	U.S.T.	Rport Time:	01:15PM
Other Source:		Notifier:	CHIEF MIKE DUNNE/FD
Petro/Hazardous:	PETROLEUM	Notifier Phone:	
Virgin/Waste:	VIRGIN	First IR Form:	1/5/1993
Material:	#2 FUEL OIL	Staff Lead:	MACAFEE, K
Other Material:		Category:	
Enviro Impact:		Days For Case:	0
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	NONE	Referral Divisions:	SA
Reported Qty Spilled:	-----		
CAS # for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:	1/19/1993		

49	2 of 5	ESE	0.30 / 1,576.70	139.31 / -54	INTERSTATE GAS & OIL 239 NOBSCOT RD SUDBURY MA	LUST
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RTN:	3-0004668	Phase:	PHASE IV
Compliance Status:	DPS	Location Type(s):	TANK FARM
Compl Status Desc:	Downgradient Property Status	Site Name (BWSC):	INTERSTATE GAS & OIL
Compliance Date:	9/24/2001	Address (BWSC):	239 NOBSCOT RD
Notification Date:	1/5/1992	Town (BWSC):	SUDBURY
RAO Class:		Zip Code (BWSC):	01776-0000
Chemical Type:	Oil	OFC Town (BWSC):	SUDBURY
Reporting Category:	NONE	Source(s):	UST
Site Name (EEA Data Portal):	INTERSTATE GAS & OIL		
Release Add (EEA Data Portal):	239 NOBSCOT RD		
City/Town (EEA Data Portal):	SUDBURY		
Phase Desc:	Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004668		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004668		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Prim ID:
Current Status: DPS
Current Status Desc: Downgradient Property Status
Current Date: 24-Sep-2001
OFC Notification: 05-Jan-1992
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Other Rela:

Category: NONE
Phase: PHASE IV
RAO Class:
OHM: Oil

Chemical Information

Chemical: PETROLEUM
Amount:
Units:

Action Information

Date: 11-Apr-1997
Action: RAM
Action Description: Release Abatement Measure
Status: FEEREC
Status Description: Fee Received
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 05-Jan-1992
Action: NOR
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 05-Jan-2004
Action: RAO
Action Description: Response Action Outcome -RAO
Status: FEEREF
Status Description: Fee Not Required - Fee Refunded
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 11-Apr-1997
Action: TREGS
Action Description:
Status: LSPFA
Status Description:
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 24-Sep-2001
Action: RAO
Action Description: Response Action Outcome -RAO
Status: REVRCD
Status Description: Revised Statement or Transmittal Received
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 11-Aug-1997
Action: PHSIII
Action Description: Phase 3
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 13-Aug-1997
Action: RAO
First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:						
RAO Class Desc:						
Date:	11-Apr-1997				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Date:	28-Sep-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	05-Jan-1992				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	FLDISS					
Status Description:	Field NOR Issued					
RAO Class:						
RAO Class Desc:						
Date:	11-Aug-1997				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Date:	11-Aug-1997				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:						
RAO Class Desc:						
Date:	24-Sep-2001				First Name:	
Action:	DPS				Last Name:	
Action Description:	Downgradient Property Status					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Date:	05-Jan-1992				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:						
RAO Class Desc:						

[49](#) 3 of 5 **ESE** 0.30 / 1,576.70 139.31 / -54 **NO LOCATION AID**
239 NOBSCOT RD **RELEASE**
SUDBURY MA

RTN: 3-0026639 **Phase:**
Compliance Date: 4/24/2007 **RAO Class:** A1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, ROADWAY
Notification Date:	3/1/2007	Site Name (BWSC):	NO LOCATION AID
Source:	VEHICLE	Address (BWSC):	239 NOBSCOT RD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	
Rel Add(EEA Data):	239 NOBSCOT RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0026639		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0026639		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	#2 FUEL OIL
Amount:	30
Units:	GAL
Chemical:	#2 FUEL OIL
Amount:	15
Units:	GAL

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	01-Mar-2007	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	ISSUED	F Name:	
Date:	17-Apr-2007	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RECPT	F Name:	
Date:	24-Apr-2007	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	24-Apr-2007	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	01-Mar-2007	L Name:	
Action:	REL		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 24-Apr-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 24-Apr-2007 **OHM:** Oil
OFC Notification: 01-Mar-2007
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

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Site No: 3-0004668 **Initial Status Dt:** 8/2/1997
Source: UST **Official Notifi Dt:** 1/5/1992
Release Type: DPS **Current Date:** 9/24/2001
Chemical Type: Oil **ROA Class:**
Category: NONE **Phase:** PHASE IV
ROA Class Desc:
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan. The cleanup plan is implemented in Phase IV.
Release Type Desc: (Downgradient Property Status): A site where a DPS Submittal to DEP has stated that contamination on the property is coming from an upgradient property.
Status Desc: Downgradient Property Status
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0004668>
Location Type: TANK FARM

Chemicals Information

Chemical: PETROLEUM
Amount:
Units:

Response Action

Response Action Type: RAM Release Abatement Measure
Status: FEEREC Fee Received - TFS Use Only
Submittal Date: 04/11/1997
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASII Phase 2
Status: CSRCVD Completion Statement Received
Submittal Date: 08/11/1997
RAO Class:
RAO Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Activity and Use Limitation:

Response Action Type: DPS Downgradient Property Status
Status: RECPT Transmittal or Notification Received
Submittal Date: 09/24/2001
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHSIII Phase 3
Status: CSRCVD Completion Statement Received
Submittal Date: 08/11/1997
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: FEEREF Fee Not Required - Fee Refunded - TFS Use Only
Submittal Date: 01/05/2004
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 01/05/1992
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: N/A
LSP Name: COREY, DONALD L

RAO Detail

Class: A2
Method: 1
GW Category: 1
Soil Category: 2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

49	5 of 5	ESE	0.30 / 1,576.70	139.31 / -54	INTERSTATE GAS & OIL 239 NOBSCOT RD SUDBURY MA	RELEASE
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RTN: 3-0004668	Phase: PHASE IV
Compliance Date: 9/24/2001	RAO Class:
Compliance Status: DPS	Chemical Type: Oil
Compl Status Desc: Downgradient Property Status	Location Type: TANK FARM
Notification Date: 1/5/1992	Site Name (BWSC): INTERSTATE GAS & OIL
Source: UST	Address (BWSC): 239 NOBSCOT RD
Reporting Category: NONE	Town (BWSC): SUDBURY
Site (EEA Data): INTERSTATE GAS & OIL	Zip Code (BWSC): 01776-0000
Rel Add(EEA Data): 239 NOBSCOT RD	OFC Town (BWSC): SUDBURY
Town (EEA Data): SUDBURY	
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan	
RAO Class Desc:	
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004668	
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004668	
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 05-Jan-1992 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: FEEREC **F Name:**
Date: 11-Apr-1997 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class:
RAO Class Desc:

Status: PLANWR **F Name:**
Date: 11-Apr-1997 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

Status: LSPFA **F Name:**
Date: 11-Apr-1997 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 11-Aug-1997 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: FEEREC **F Name:**
Date: 13-Aug-1997 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 28-Sep-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: RECPT **F Name:**
Date: 24-Sep-2001 **L Name:**
Action: DPS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Downgradient Property Status				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						
Status:	FLDISS				F Name:	
Date:	05-Jan-1992				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Field NOR Issued					
RAO Class:						
RAO Class Desc:						
Status:	FEEREF				F Name:	
Date:	05-Jan-2004				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Not Required - Fee Refunded					
RAO Class:						
RAO Class Desc:						
Status:	RAORCD				F Name:	
Date:	11-Aug-1997				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:						
RAO Class Desc:						
Status:	REVRCD				F Name:	
Date:	24-Sep-2001				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:						
RAO Class Desc:						
Status:	TCTRNS				F Name:	
Date:	05-Jan-1992				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	11-Aug-1997				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						

Release (BWSC) Detail

Prim ID:
Current Status: DPS
Current St Desc: Downgradient Property Status
Current Date: 24-Sep-2001
OFC Notification: 05-Jan-1992
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Other Rela:

Category: NONE
Phase: PHASE IV
RAO Class:
OHM: Oil

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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EPA Handler ID: MAD055304604
Gen Status Universe: No Report
Contact Name: DAVID MATTHEWS
Contact Address: 31 C UNION AVE , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-7161
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19850613

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19850613
Handler Name: I C TESTING INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D003
Waste Code Description: REACTIVE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 31 C UNION AVE
Name: IC TESTING INC	Street 2:
Date Became Current: 19911208	City: SUDBURY
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01776

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
51	1 of 6	ESE	0.03 / 173.74	133.69 / -60	COATINGS ENGINEERING CORP 33 UNION AVE SUDBURY MA 01776	UST

Facility ID:	11009	Address (Map):	
Owner ID:	1400	City (Map):	
Facility Status:	CLOSED	Facility Contact:	
Facility Name:	COATINGS ENGINEERING CORP	Facility Phone:	
Fac Add 1:	33 UNION AVE	Facility Lat:	42.36403
Facility City:	SUDBURY	Facility Long:	-71.42673
Fac Name (Map):			
Facility Type:			

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	28-Feb-1992
Con State:		Update By:	
Con Zip:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	COATINGS ENGINEERING CORP
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	COATINGS ENGINEERING CORP
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Information

Owner Name:	COATINGS ENGINEERING CORP	Contact Name:	
Owner Add 1:	33 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Tank ID:	4	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instlled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	7	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	2	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	6	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	3	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	8	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	1	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	9	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	5	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Tank Construct:

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	10	Submersible Sump:	NO
Install Date:	18-Apr-1973	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Unregulated Content	Interm Sump Sensor:	NO
Capacity:	2500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct:

Pipe Leak Detect:

Pipe Leak Install:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tank Construct:
 Tank Leak Detect:
 Tank Corrosion Type:
 Leak Corrosion Type:
 Note:

This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

51	2 of 6	ESE	0.03 / 173.74	133.69 / -60	COATINGS ENGINEERING 33 UNION RD SUDBURY MA	RELEASE
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RTN:	3-0000074	Phase:	PHASE V
Compliance Date:	4/23/2014	RAO Class:	C2
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	INDUSTRIAL, MANUFACT
Notification Date:	2/11/1986	Site Name (BWSC):	COATINGS ENGINEERING
Source:	LEACHFIELD, UNKNOWN	Address (BWSC):	33 UNION RD
Reporting Category:	NONE	Town (BWSC):	SUDBURY
Site (EEA Data):	COATINGS ENGINEERING	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	33 UNION RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0000074		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0000074		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount:
Units:

Chemical: VOCS
Amount:
Units:

Action Information (BWSC)

Status:	NON	F Name:	
Date:	19-Jul-2010	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	C2		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible		

Status:	NOTROS	F Name:	
Date:	13-Apr-2012	L Name:	
Action:	PHASEV		
Action Description:	Phase 5		
Status Description:			
RAO Class:	C2		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	21-Mar-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	ROSSTR				F Name:	
Date:	04-Jun-2010				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRFIN				F Name:	
Date:	07-Oct-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Final Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	PEREXT				F Name:	
Date:	01-Aug-2012				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS20					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD				F Name:	
Date:	12-Oct-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRFIN				F Name:	
Date:	12-Apr-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Final Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	20-Oct-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	TIER1B				F Name:	
Date:	20-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	NOA				F Name:	
Date:	06-Jun-2019				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	04-Jun-2010				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	13-Dec-2011				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	07-Jun-2011				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	17-Oct-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	REVRCD				F Name:	
Date:	25-Jul-2013				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	IMRCD				F Name:	
Date:	12-Oct-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRFIN				F Name:	
Date:	12-Oct-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Final Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRINT				F Name:	
Date:	20-Apr-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					RMR Interim Report Received	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	FLDRAN				F Name:	
Date:	18-Jun-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Announced	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	LEGNOT				F Name:	
Date:	15-Jun-2006				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Legal Notice Published	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	PEREFF				F Name:	
Date:	20-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	PEREXT				F Name:	
Date:	21-Jul-2006				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Extension Received (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	TIER1C				F Name:	
Date:	30-Aug-2001				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1C Classification (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRINT				F Name:	
Date:	07-May-2008				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT			F Name:		
Date:	07-Jun-2011			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT			F Name:		
Date:	15-Dec-2010			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	ROSSTR			F Name:		
Date:	13-Dec-2011			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD			F Name:		
Date:	12-Apr-2019			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD			F Name:		
Date:	20-Apr-2017			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	RMRINT				F Name:	
Date:	23-Apr-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	FOLOFF				F Name:	
Date:	30-Jul-2013				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	LEGNOT				F Name:	
Date:	18-Mar-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Legal Notice Published					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RECPT				F Name:	
Date:	22-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	06-May-2009				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	CSRCVD				F Name:	
Date:	11-Aug-2003				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary					

Solution where achievement of a Permanent Solution is currently feasible

Status: CSRCVD **F Name:**
Date: 20-Aug-1997 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: IMRCD **F Name:**
Date: 15-Apr-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: RMRFIN **F Name:**
Date: 10-Apr-2020 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Final Report Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: RMRFIN **F Name:**
Date: 13-Apr-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Final Report Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: RMRINT **F Name:**
Date: 20-Apr-2017 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: RMRINT **F Name:**
Date: 12-Oct-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	NON				F Name:	
Date:	02-Nov-2000				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ISSUED				F Name:	
Date:	11-Feb-1986				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ISSUED				F Name:	
Date:	31-Jul-2001				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	06-May-2009				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	STRCVD				F Name:	
Date:	27-Jan-2014				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Status or Interim Report Received					
RAO Class:	C2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	IMRCD				F Name:	
Date:	20-Apr-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRINT				F Name:	
Date:	09-Oct-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRINT				F Name:	
Date:	19-Nov-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	LEGNOT				F Name:	
Date:	21-Jun-2012				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Legal Notice Published	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	PEREFF				F Name:	
Date:	03-Jan-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	PEREXT				F Name:	
Date:	08-May-2004				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Permit Extension Received (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	BWSC05				F Name:	
Date:	20-Jul-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RMRINT				F Name:	
Date:	18-Nov-2008				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	07-May-2008				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	ROSSTR				F Name:	
Date:	18-Nov-2008				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	CSRCVD				F Name:	
Date:	23-Apr-2014				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:	C2					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Apr-2018				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	IMRCD				F Name:	
Date:	09-Oct-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	IMRCD				F Name:	
Date:	20-Oct-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	RAORCD				F Name:	
Date:	23-Apr-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	TSAUD				F Name:	
Date:	21-Aug-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	
Status:	TCTRNS				F Name:	
Date:	11-Feb-1986				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Valid Transition Site (Retired)	
RAO Class:					C2	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	NAFNVD				F Name:	
Date:	15-Jul-2019				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD				F Name:	
Date:	26-Mar-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	REMOPS				F Name:	
Date:	01-Sep-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status (ROS) Submittal Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	17-Oct-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	ROSSTR				F Name:	
Date:	15-Dec-2010				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	ABCRCO				F Name:	
Date:	13-Feb-2003				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	As-Built Construction Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Solution where achievement of a Permanent Solution is currently feasible	
Status:	PLANMD				F Name:	
Date:	25-Jul-2013				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	PLANWR				F Name:	
Date:	03-Jul-2002				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	RMRINT				F Name:	
Date:	27-Jan-2014				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	RMR Interim Report Received					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	ACTAUD				F Name:	
Date:	15-Jul-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD				F Name:	
Date:	10-Apr-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible					
Status:	IMRCD				F Name:	
Date:	07-Oct-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C2					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: IMRCD
Date: 19-Nov-2014
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Status: RMRINT
Date: 15-Apr-2016
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C2
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 23-Apr-2014
OFC Notification: 11-Feb-1986
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, response actions to achieve a Permanent Solution are feasible and are to be conducted. As of June 20, 2014, all Class C-2 Response Action Outcomes submitted to the Department shall be Temporary Solution as described in 310 CMR 40.1050(1)(e)2- Temporary Solution where achievement of a Permanent Solution is currently feasible

Category: NONE
Phase: PHASE V
RAO Class: C2
OHM: Oil and Hazardous Material

Other Rela:

51	3 of 6	ESE	0.03 / 173.74	133.69 / -60	COATINGS ENGR CORP 33 UNION AVE SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD001063338
Gen Status Universe: No Report
Contact Name: CRAIG THOMAS
Contact Address: 33 UNION AVE , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-653-1500
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19800811

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19800811
Handler Name: COATINGS ENGR CORP
Source Type: Part A
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19800811
Handler Name: COATINGS ENGR CORP
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	33 UNION AVE
Name: GILBERT & BENNETT MANUFACTURING CORP	Street 2:	
Date Became Current: 20041016	City:	SUDBURY
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01776

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	33 UNION AVE
Name: COATINGS ENGINEERING	Street 2:	
Date Became Current: 19901129	City:	SUDBURY
Date Ended Current: 19901130	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01776

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	33 UNION AVE
Name: COATINGS ENGINEERING	Street 2:	
Date Became Current: 19901129	City:	SUDBURY
Date Ended Current: 19901130	State:	MA
Phone:	Country:	US
Source Type: Part A	Zip Code:	01776

Historical Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Receive Dt:		19800811				
Generator Code Description:		Not a Generator, Verified				
Handler Name:		COATINGS ENGR CORP				

51	4 of 6	ESE	0.03 / 173.74	133.69 / -60	COATINGS ENGINEERING 33 UNION RD SUDBURY MA 01776-0000	SPILLS
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RTN: 3-0000074

Primary ID:

Compliance Status:

Current Status: RAO

Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated

Current Date: 4/23/2014

RAO Class: C2

RAO Class Desc: Temporary Solution where achievement of a Permanent Solution is currently feasible

Chemical Type:

Release Type: RAO

Location Type: MANUFACT,INDUSTRIAL

Category: NONE

Initial Status Date: 7/20/1995

Notification Date: 2/11/1986

Source: UNKNOWN,LEACHFIELD

Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0000074>

Phase: PHASE V

Phase Desc: Operation, Maintenance, and/or Monitoring. During Phase V, long-term treatment processes are implemented and monitored to track cleanup progress

Office Town: SUDBURY

Actions

Action: TCLASS

Status: LEGNOT

RAO Class: C2

Date: 6/21/2012

Status Description: Legal Notice Published

Action: TCLASS

Status: PEREFF

RAO Class: C2

Date: 7/20/1994

Status Description: Permit Effective Date (retired)

Action: RAO

Status: IMRCD

RAO Class: C2

Date: 10/12/2016

Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: RAO

Status: RMRINT

RAO Class: C2

Date: 4/20/2015

Status Description: RMR Interim Report Received

Action: PHASIV

Status: PLANMD

RAO Class: C2

Date: 7/25/2013

Status Description: Modified Revised or Updated Plan Received

Action: TCLASS

Status: PEREXT

RAO Class: C2

Date: 7/21/2006

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Permit Extension Received (retired)				
Action:		RLFA				
Status:		FOLOFF				
RAO Class:		C2				
Date:		7/30/2013				
Status Description:		Follow-up Office Response				
Action:		PHSIII				
Status:		CSRCVD				
RAO Class:		C2				
Date:		8/20/1997				
Status Description:		Completion Statement Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		4/20/2017				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		4/23/2014				
Status Description:		RMR Interim Report Received				
Action:		PHASEV				
Status:		REMOPS				
RAO Class:		C2				
Date:		9/1/2006				
Status Description:		Remedy Operation Status (ROS) Submittal Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		12/13/2011				
Status Description:		Remedy Operation Status Report Received				
Action:		TCLASS				
Status:		PEREXT				
RAO Class:		C2				
Date:		8/1/2012				
Status Description:		Permit Extension Received (retired)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C2				
Date:		4/20/2015				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		12/13/2011				
Status Description:		RMR Interim Report Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		5/6/2009				
Status Description:		Remedy Operation Status Report Received				
Action:		NOR				
Status:		ISSUED				
RAO Class:		C2				
Date:		2/11/1986				
Status Description:		Correspondence Issued				
Action:		TCLASS				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		LEGNOT				
RAO Class:		C2				
Date:		6/15/2006				
Status Description:		Legal Notice Published				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		11/18/2008				
Status Description:		Remedy Operation Status Report Received				
Action:		RAO				
Status:		RAORCD				
RAO Class:		C2				
Date:		4/23/2014				
Status Description:		RAO Statement Received (retired)				
Action:		BWS20				
Status:		APPROV				
RAO Class:		C2				
Date:						
Status Description:		APPROV				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		12/15/2010				
Status Description:		Remedy Operation Status Report Received				
Action:		PHASIV				
Status:		CSRCVD				
RAO Class:		C2				
Date:		8/11/2003				
Status Description:		Completion Statement Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C2				
Date:		11/19/2014				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASIV				
Status:		RMRINT				
RAO Class:		C2				
Date:		1/27/2014				
Status Description:		RMR Interim Report Received				
Action:		TCLASS				
Status:		TIER1C				
RAO Class:		C2				
Date:		8/30/2001				
Status Description:		Tier 1C Classification (retired)				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		10/12/2016				
Status Description:		RMR Interim Report Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		10/17/2007				
Status Description:		Remedy Operation Status Report Received				
Action:		TCLASS				
Status:		RECPT				
RAO Class:		C2				
Date:		3/22/1994				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Transmittal, Notice, or Notification Received				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		5/7/2008				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		TSAUD				
RAO Class:		C2				
Date:		8/21/2014				
Status Description:		Level I - Technical Screen Audit				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		6/4/2010				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		11/19/2014				
Status Description:		RMR Interim Report Received				
Action:		C&E				
Status:		NON				
RAO Class:		C2				
Date:		11/2/2000				
Status Description:		NON				
Action:		PHASEV				
Status:		NOTROS				
RAO Class:		C2				
Date:		4/13/2012				
Status Description:		NOTROS				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		4/15/2016				
Status Description:		RMR Interim Report Received				
Action:		NOR				
Status:		ISSUED				
RAO Class:		C2				
Date:		7/31/2001				
Status Description:		Correspondence Issued				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		10/17/2007				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		10/9/2017				
Status Description:		RMR Interim Report Received				
Action:		C&E				
Status:		NON				
RAO Class:		C2				
Date:		7/19/2010				
Status Description:		NON				
Action:		RAO				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		IMRCD				
RAO Class:		C2				
Date:		4/15/2016				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		RMRINT				
RAO Class:		C2				
Date:		10/20/2015				
Status Description:		RMR Interim Report Received				
Action:		PHASIV				
Status:		STRCVD				
RAO Class:		C2				
Date:		1/27/2014				
Status Description:		Status or Interim Report Received				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		6/7/2011				
Status Description:		RMR Interim Report Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C2				
Date:		10/9/2017				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		TCLASS				
Status:		PEREXT				
RAO Class:		C2				
Date:		5/8/2004				
Status Description:		Permit Extension Received (retired)				
Action:		PHASIV				
Status:		ABCRCO				
RAO Class:		C2				
Date:		2/13/2003				
Status Description:		As-Built Construction Report Received				
Action:		REL				
Status:		TCTRNS				
RAO Class:		C2				
Date:		2/11/1986				
Status Description:		Valid Transition Site (Retired)				
Action:		BWS03				
Status:		APPROV				
RAO Class:		C2				
Date:						
Status Description:		APPROV				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		6/4/2010				
Status Description:		Remedy Operation Status Report Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		5/7/2008				
Status Description:		Remedy Operation Status Report Received				
Action:		PHSIII				
Status:		REVRCD				
RAO Class:		C2				
Date:		7/25/2013				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Revised Statement or Transmittal Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		3/21/2007				
Status Description:		Remedy Operation Status Report Received				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		12/15/2010				
Status Description:		RMR Interim Report Received				
Action:		PHASIV				
Status:		PLANWR				
RAO Class:		C2				
Date:		7/3/2002				
Status Description:		Written Plan Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C2				
Date:		4/20/2017				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		TCLASS				
Status:		LEGNOT				
RAO Class:		C2				
Date:		3/18/2004				
Status Description:		Legal Notice Published				
Action:		TREGS				
Status:		BWSC05				
RAO Class:		C2				
Date:		7/20/1994				
Status Description:		BWSC05				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C2				
Date:		10/20/2015				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASEV				
Status:		IMRCD				
RAO Class:		C2				
Date:		3/26/2004				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		11/18/2008				
Status Description:		RMR Interim Report Received				
Action:		PHASEV				
Status:		RMRINT				
RAO Class:		C2				
Date:		5/6/2009				
Status Description:		RMR Interim Report Received				
Action:		TCLASS				
Status:		TIER1B				
RAO Class:		C2				
Date:		7/20/1994				
Status Description:		Tier 1B Classification (retired)				
Action:		PHASIV				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		CSRCVD				
RAO Class:		C2				
Date:		4/23/2014				
Status Description:		Completion Statement Received				
Action:		PHASEV				
Status:		ROSSTR				
RAO Class:		C2				
Date:		6/7/2011				
Status Description:		Remedy Operation Status Report Received				
Action:		TCLASS				
Status:		PEREFF				
RAO Class:		C2				
Date:		1/3/2002				
Status Description:		Permit Effective Date (retired)				
<u>Chemical Information</u>						
Chemical:		VOCS				
Amount:						
Unit:						
Chemical:		UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL				
Amount:						
Unit:						
<u>LSP Information</u>						
LSP:		6118				
Name:		JOHNSON, RAYMOND C				
<u>Response Action Information</u>						
Response Action Type:		PHASEV Phase 5				
Status:		NOTROS				
Submittal Date:		04/13/2012				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHASIV Phase 4				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		04/23/2014				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		TCTRNS Tier Classified Transition Sites				
Submittal Date:		02/11/1986				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		TCLASS Tier Classification				
Status:		PEREXT Permit Extension Received				
Submittal Date:		08/01/2012				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHSIII Phase 3				
Status:		REVRCD Revised Statement or Transmittal Received				
Submittal Date:		07/25/2013				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 10/09/2017
RAO Class: C2
Activity Use Limitation:

RAO Information

Class: C2
Method: 1
GW Category: 1
Soil Category: 1

Tier Classification Details

RTN Total: 437
NRS II: 200
NRS III: 82
NRS IV: 90
NRS V: 65
NRS VI: 0
Zone 2: Y
Imminent Hazard: N

Location Information

Location: INDUSTRIAL
Location: MANUFACT

Source Information

Source: UNKNOWN
Source: LEACHFIELD

51	5 of 6	ESE	0.03 / 173.74	133.69 / -60	STAPLES CONTRACT AND COMMERCIAL 33 UNION AVE SUDBURY MA 01776	RCRA CESQG
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EPA Handler ID: MAC300093028
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: JIM COMPTON
Contact Address: 33 UNION AVE , , SUDBURY , MA, 01776-0000 , US
Contact Phone No and Ext: 978-443-9592
Contact Email: JAMES.COMPTON@STAPLES.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20161115

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20130517
Handler Name: STAPLES CONTRACT AND COMMERCIAL
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: MA95
Waste Code Description: UNIVERSAL WASTE

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20161115
Handler Name: STAPLES CONTRACT AND COMMERCIAL
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:		MERCURY				
Hazardous Waste Code:		MA01				
Waste Code Description:		WASTE OIL				
Hazardous Waste Code:		MA95				
Waste Code Description:		UNIVERSAL WASTE				
Hazardous Waste Code:		MA99				
Waste Code Description:		NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST				

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	33 UNION AVE
Name:	E B REALTY TRUST THEODORE PASQUARELLO	Street 2:	
Date Became Current:	19880226	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776-0000
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	33 UNION AVE
Name:	E B REALTY TRUST THEODORE PASQUARELLO	Street 2:	
Date Became Current:	19980226	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776-0000
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	33 UNION AVE
Name:	STAPLES CONTRACT AND COMMERCIAL	Street 2:	
Date Became Current:	19970401	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776-0000

Historical Handler Details

Receive Dt:	20130517
Generator Code Description:	Small Quantity Generator
Handler Name:	STAPLES CONTRACT AND COMMERCIAL

51	6 of 6	ESE	0.03 / 173.74	133.69 / -60	STAPLES CONTRACT AND COMMERCIAL 33 UNION AVE SUDBURY MA 01776	GEN
EPA ID No:	MAC300093028					
2nd Name:						
Phone:	978-443-9592					

52	1 of 2	ESE	0.04 / 201.52	132.98 / -61	MULLEN LUMBER 39 UNION AVE SUDBURY MA	RELEASE
RTN:	3-0002640		Phase:	PHASE IV		
Compliance Date:	8/7/1997		RAO Class:	C1		
Compliance Status:	RAO		Chemical Type:			
Compl Status Desc:	Response Action Outcome		Location Type:			
Notification Date:	1/15/1990		Site Name (BWSC):	MULLEN LUMBER		
Source:			Address (BWSC):	39 UNION AVE		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Reporting Category:	NONE				Town (BWSC): SUDBURY	
Site (EEA Data):	MULLEN LUMBER				Zip Code (BWSC): 01776	
Rel Add(EEA Data):	39 UNION AVE				OFC Town (BWSC): SUDBURY	
Town (EEA Data):	SUDBURY					
Phase Desc:	Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002640					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002640					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status: IMRCD **F Name:**
Date: 18-Feb-2004 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 24-Jul-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 15-Sep-2017 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 13-Feb-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 08-May-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 18-Feb-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 07-Sep-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 13-Aug-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 09-Aug-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 12-Aug-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PLANWR				F Name:	
Date:	07-Aug-1997				L Name:	
Action:	PHASIV					
Action Description:		Phase 4				
Status Description:		Written Plan Received				
RAO Class:		C1				
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	07-Aug-1997				L Name:	
Action:	PHSIII					
Action Description:		Phase 3				
Status Description:		Completion Statement Received				
RAO Class:		C1				
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	09-Mar-2007				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	07-Aug-1997				L Name:	
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Completion Statement Received				
RAO Class:		C1				
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	10-Aug-2004				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RAORCD				F Name:	
Date:	07-Aug-1997				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		RAO Statement Received (retired)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Status:	TSEVAL			F Name:		
Date:	31-Dec-2012			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TCTRNS			F Name:		
Date:	15-Jan-1990			L Name:		
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Release (BWSC) Detail						
Prim ID:		Category:	NONE			
Current Status:	RAO	Phase:	PHASE IV			
Current St Desc:	Response Action Outcome	RAO Class:	C1			
Current Date:	07-Aug-1997	OHM:				
OFC Notification:	15-Jan-1990					
Phase Desc:	Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Other Rela:						

[52](#)

2 of 2

ESE

0.04 /
201.52132.98 /
-61MULLEN LUMBER
39 UNION AVE
SUDBURY MA 01776

SPILLS

RTN: 3-0002640

Primary ID:

Compliance Status:

Current Status: RAO

Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated

Current Date: 8/7/1997

RAO Class: C1

RAO Class Desc: Temporary Solution where achievement of a Permanent Solution is not currently feasible

Chemical Type:

Release Type: RAO

Location Type:

Category: NONE

Initial Status Date: 8/2/1997

Notification Date: 1/15/1990

Source:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Additional Files URL:		http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0002640				
Phase:		PHASE IV				
Phase Desc:		Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan. The cleanup plan is implemented in Phase IV				
Office Town:		SUDBURY				
 Actions						
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		7/24/2002				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
Action:		REL				
Status:		TCTRNS				
RAO Class:		C1				
Date:		1/15/1990				
Status Description:		Valid Transition Site (Retired)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		2/18/2004				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		8/9/2006				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		3/9/2007				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		RAORCD				
RAO Class:		C1				
Date:		8/7/1997				
Status Description:		RAO Statement Received (retired)				
Action:		PHASII				
Status:		CSRCVD				
RAO Class:		C1				
Date:		8/7/1997				
Status Description:		Completion Statement Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		2/18/2005				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		PHASIV				
Status:		PLANWR				
RAO Class:		C1				
Date:		8/7/1997				
Status Description:		Written Plan Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		8/10/2004				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		8/13/2007				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		8/12/2003				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		2/13/2006				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		9/15/2017				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		5/8/2003				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
Action:		PHSIII				
Status:		CSRCVD				
RAO Class:		C1				
Date:		8/7/1997				
Status Description:		Completion Statement Received				
Action:		RAO				
Status:		IMRCD				
RAO Class:		C1				
Date:		9/7/2005				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
Action:		RAO				
Status:		TSEVAL				
RAO Class:		C1				
Date:		12/31/2012				
Status Description:		Periodic Review Opinion Evaluating Temporary Solution				
<u>Chemical Information</u>						
Chemical:		UNKNOWN				
Amount:						
Unit:						
<u>LSP Information</u>						
LSP:		9997				
Name:		IRWIN, J ANDREW				
<u>Response Action Information</u>						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		TSEVAL Periodic Review Opinion Evaluating Temporary Solution				
Submittal Date:		09/15/2017				
RAO Class:		C1				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Activity Use Limitation:		NONE				
Response Action Type:		PHASIV Phase 4				
Status:		PLANWR Written Plan Received				
Submittal Date:		08/07/1997				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHSIII Phase 3				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		08/07/1997				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		TCTRNS Tier Classified Transition Sites				
Submittal Date:		01/15/1990				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHASII Phase 2				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		08/07/1997				
RAO Class:						
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		C1				
Method:		3				
GW Category:		1				
Soil Category:		3				

53	1 of 3	ESE	0.03 / 168.10	132.95 / -61	UNION AVE REALTY 46 UNION AVE SUDBURY MA 01776	UST
Facility ID:		10992		Address (Map):		46 UNION AVE
Owner ID:		1162		City (Map):		SUDBURY
Facility Status:		CLOSED		Facility Contact:		
Facility Name:		UNION AVE REALTY		Facility Phone:		
Fac Add 1:		46 UNION AVE		Facility Lat:		42.36351
Facility City:		SUDBURY		Facility Long:		-71.42181
Fac Name (Map):		CHARLES PRECOURT & SON INC				
Facility Type:		Manufacturing				

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	22-Sep-2010
Con State:		Update By:	
Con Zip:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	CHARLES PRECOURT & SON INC
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	CHARLES PRECOURT & SON INC
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner Information

Owner Name:	CHARLES PRECOURT & SON INC	Contact Name:	
Owner Add 1:	46 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	15-Apr-1985	Submer Sump Instl:	
Status:	Tank Closure In-Place	Turbine Sump:	NO
Status Date:	22-Sep-2010	Turb Sump Sensor:	NO
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	

Auto Line Lk Dtect:

Pipe Install Date:

Pipe Type:

Pipe Construct: Single-walled metal (Corrosion protection required)

Pipe Leak Detect: Annual Automatic Line Leak Detection Test

Pipe Leak Install:

Tank Construct: Single-walled metal tank (cathodic protection required)

Tank Leak Detect:

Tank Corrosion Type:

Leak Corrosion Type:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

MassGIS Data : MassDEP UST (as of April 2016)

Fac ID:	503755	Town:	SUDBURY
UST ID:	10992	Region:	3
Ro ID:	507792	Region Desc:	Northeast Region - Wilmington
Ro Acct:	0	Point X:	0
Fac Name:	CHARLES PRECOURT & SON INC	Point Y:	0
Address:	46 UNION AVE		

DEP Location Documentation (as of April 2016)

Automation Date:	28-Jul-2010	Location Type:	CT
Primary Loc Dt:	20-May-2010	Location Method:	Interpolation - Photo
Secondary Loc Dt:		Point X:	0
Tertiary Loc Dt:		Point Y:	0
Location Base Map:	Digital orthophoto base map (DOQ)		
Location Accuracy Estimate:	Estimated horizontal accuracy is 0 - +/-16 feet		
Primary Location Source:	Site visited for the purpose of field verification and/or site inspection		
Secondary Location Source:	Digital Parcel Data		
Tertiary Location Source:			

53	2 of 3	ESE	0.03 / 168.10	132.95 / -61	CHARLES J PERCOURT & SONS INC 46 UNION AVE SUDBURY MA 01776	GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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EPA ID No: MAR000535054
 2nd Name:
 Phone: 978-443-6717

53	3 of 3	ESE	0.03 / 168.10	132.95 / -61	CHARLES J PRECOURT & SON INC 46 UNION AVE SUDBURY MA 01776	RCRA CESQG
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EPA Handler ID: MAR000535054
 Gen Status Universe: Conditionally Exempt Small Quantity Generator
 Contact Name: MICHAEL PRECOURT
 Contact Address: 46 , UNION AVE , , SUDBURY , MA, 01776 , US
 Contact Phone No and Ext: 978-443-6717
 Contact Email: OFFICE@PRECOURTSTONE.COM
 Contact Country: US
 County Name: MIDDLESEX
 EPA Region: 01
 Land Type: Private
 Receive Date: 20181023

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20181023
 Handler Name: CHARLES J PRECOURT & SON INC
 Federal Waste Generator Code: 3
 Generator Code Description: Very Small Quantity Generator
 Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE
 Hazardous Waste Code: MA01
 Waste Code Description: WASTE OIL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	46
Type:	Private	Street 1:	UNION AVE
Name:	CHARLES J PRECOURT & SON INC	Street 2:	
Date Became Current:	20181022	City:	SUDBURYSUDBURY
Date Ended Current:		State:	MA
Phone:	978-443-6717	Country:	US
Source Type:	Notification	Zip Code:	01776

Owner/Operator Ind:	Current Operator	Street No:	46
Type:	Private	Street 1:	UNION AVE
Name:	MICHAEL PRECOURT	Street 2:	
Date Became Current:	20181022	City:	SUDBURYSUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

54	1 of 1	ESE	0.06 / 315.40	132.60 / -61	E H PERKINS CONSTRUCTION INC 50 UNION AVE SUDBURY MA 01776	UST
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Facility ID:	10995	Address (Map):	
Owner ID:	2001	City (Map):	
Facility Status:	CLOSED	Facility Contact:	
Facility Name:	E H PERKINS CONSTRUCTION INC	Facility Phone:	
Fac Add 1:	50 UNION AVE	Facility Lat:	42.36395
Facility City:	SUDBURY	Facility Long:	-71.42114
Fac Name (Map):			
Facility Type:			

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	28-Feb-1992
Con State:		Update By:	
Con Zip:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	E H PERKINS CONSTRUCTION INC
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	E H PERKINS CONSTRUCTION INC
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Infomation

Owner Name:	E H PERKINS CONSTRUCTION INC	Contact Name:	
Owner Add 1:	50 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	
Business:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	30-Apr-1974	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	2000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	2	Submersible Sump:	NO
Install Date:	30-Apr-1966	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	10-Jun-1987	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Waste Oil	Interm Sump Sensor:	NO
Capacity:	1000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

55	1 of 2	ESE	0.14 / 731.78	132.17 / -62	METHODS MACHINE TOOLS INC 65 UNION AVE SUDBURY MA 01776	RCRA SQG
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EPA Handler ID:	MAD019659044
Gen Status Universe:	Small Quantity Generator
Contact Name:	ROBERT P QUINN
Contact Address:	65 , UNION AVE , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext:	508-443-5388
Contact Email:	
Contact Country:	US
County Name:	MIDDLESEX
EPA Region:	01
Land Type:	Private
Receive Date:	20191108

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860123
Handler Name: METHODS MACHINE TOOLS INC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20191108
Handler Name: METHODS MACHINE TOOLS INC
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Private
Name: CLEMENT L MC IVER SR
Date Became Current: 20041016
Date Ended Current:
Phone:
Source Type: Notification

Street No:
Street 1: 65 UNION AVE
Street 2:
City: SUDBURY
State: MA
Country: US
Zip Code: 01776

Owner/Operator Ind: Current Owner **Street No:** 65

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Type:	Private				Street 1:	UNION AVE
Name:	CLEMENT L MC IVER SR				Street 2:	
Date Became Current:	20041016				City:	SUDBURY
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01776

Owner/Operator Ind:	Current Operator				Street No:	65
Type:	Private				Street 1:	UNION AVE
Name:	METHODS MACHINE TOOLS INC				Street 2:	
Date Became Current:	19911208				City:	SUDBURY
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01776

Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	65 UNION AVE
Name:	METHODS MACHINE TOOLS INC				Street 2:	
Date Became Current:	19911208				City:	SUDBURY
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:	Notification				Zip Code:	01776

Historical Handler Details

Receive Dt: 19860123
 Generator Code Description: Small Quantity Generator
 Handler Name: METHODS MACHINE TOOLS INC

55	2 of 2	ESE	0.14 / 731.78	132.17 / -62	WORTHINGTON CYLINDERS 65 UNION ST REAR SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAC300102399
 Gen Status Universe: No Report
 Contact Name: MICHAEL SPELLICH
 Contact Address: 300 EAST BREED ST , , CHILTON , WI, 54232-0000 , US
 Contact Phone No and Ext: 920-849-8926 8926
 Contact Email: MDSPELLI@GMAIL.COM
 Contact Country: US
 County Name: MIDDLESEX
 EPA Region: 01
 Land Type: Private
 Receive Date: 20161214

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No

Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20160701
 Handler Name: WORTHINGTON CYLINDERS
 Source Type: Notification
 Federal Waste Generator Code: 2
 Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D005
 Waste Code Description: BARIUM

Hazardous Waste Code: D006
 Waste Code Description: CADMIUM

Hazardous Waste Code: D008
 Waste Code Description: LEAD

Hazardous Waste Code: MA01
 Waste Code Description: WASTE OIL

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 20161214
 Handler Name: WORTHINGTON CYLINDERS
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D005
 Waste Code Description: BARIUM

Hazardous Waste Code: D006
 Waste Code Description: CADMIUM

Hazardous Waste Code: D008
 Waste Code Description: LEAD

Hazardous Waste Code: MA01
 Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind: Current Owner
 Type: Private
 Name: METHODS MACHINE TOOLS
 Date Became Current: 19550101
 Date Ended Current:
 Phone:
 Source Type: Implementer

Street No:
 Street 1: 300 EAST BREED ST
 Street 2:
 City: CHILTON
 State: WI
 Country: US
 Zip Code: 54232-0000

Owner/Operator Ind: Current Operator
 Type: Private
 Name: WORTHINGTON CYLINDERS
 Date Became Current: 19550622

Street No:
 Street 1: 300 EAST BREED ST
 Street 2:
 City: CHILTON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Ended Current:					State:	WI
Phone:					Country:	US
Source Type:	Notification				Zip Code:	54232-0000
Owner/Operator Ind:		Current Owner			Street No:	
Type:	Private				Street 1:	300 EAST BREED ST
Name:	METHODS MACHINE TOOLS				Street 2:	
Date Became Current:	19550101				City:	CHILTON
Date Ended Current:					State:	WI
Phone:					Country:	US
Source Type:	Notification				Zip Code:	54232-0000
Owner/Operator Ind:		Current Operator			Street No:	
Type:	Private				Street 1:	300 EAST BREED ST
Name:	WORTHINGTON CYLINDERS				Street 2:	
Date Became Current:	19550622				City:	CHILTON
Date Ended Current:					State:	WI
Phone:					Country:	US
Source Type:	Implementer				Zip Code:	54232-0000

Historical Handler Details

Receive Dt: 20160701
Generator Code Description: Small Quantity Generator
Handler Name: WORTHINGTON CYLINDERS

56	1 of 1	ESE	0.11 / 574.57	131.90 / -62	COMREX CORP 60 UNION AVE SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD001071083
Gen Status Universe: No Report
Contact Name: ERIK THORESEN
Contact Address: PO BOX 269 , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-8811
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19821201

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19821201
 Handler Name: COMREX CORP
 Source Type: Notification
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D002
 Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: F001
 Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

57	1 of 1	ESE	0.20 / 1,030.15	136.80 / -57	FUEL DEPOT FMR 450 BOSTON POST RD SUDBURY MA	RELEASE
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RTN:	3-0004638	Phase:	PHASE II
Compliance Date:	2/27/1998	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, FORMER, FUEL DEPOT
Notification Date:	10/1/1993	Site Name (BWSC):	FUEL DEPOT FMR
Source:	UNKNOWN	Address (BWSC):	450 BOSTON POST RD
Reporting Category:	NONE	Town (BWSC):	SUDBURY
Site (EEA Data):	FUEL DEPOT FMR	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	450 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0004638		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0004638		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: GASOLINE
Amount:
Units:

Chemical: PETROLEUM
Amount:
Units:

Chemical: VOCS
Amount:
Units:

Chemical: CHLORINATED CAMPHENE
Amount:
Units:

Action Information (BWSC)

Status: TIER1C **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	02-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TCTRNS				F Name:	
Date:	01-Oct-1993				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PLANWR				F Name:	
Date:	27-Oct-1997				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RECPT				F Name:	
Date:	02-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	14-Aug-1997				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	02-Aug-1997				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	27-Feb-1998				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDRUN				F Name:	
Date:	03-Oct-1997				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	PEREFF				F Name:	
Date:	19-Nov-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:	A2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APPROV **F Name:**
Date: **L Name:**

Action: BWS03

Action Description:

Status Description:

RAO Class: A2

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 27-Feb-1998 **OHM:** Oil and Hazardous Material
OFC Notification: 01-Oct-1993
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

58	1 of 1	ESE	0.18 / 930.42	132.31 / -61	HYCOMP INC 75 UNION AVE SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD048281240
Gen Status Universe: No Report
Contact Name: FRANK-D CURLEY
Contact Address: PO BOX 377 , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-4631
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19830614

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Receive Date: 19830614
Handler Name: HYCOMP INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	PO BOX 377
Name:	HYCOMP INC	Street 2:	
Date Became Current:	19900301	City:	SUDBURY
Date Ended Current:	19910630	State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	PO BOX 377
Name:	HYCOMP INC	Street 2:	
Date Became Current:	20041016	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

59	1 of 4	ESE	0.19 / 987.05	131.78 / -62	ERNEST SCHOFIELD 80 UNION AVE SUDBURY MA 01776	UST
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Facility ID:	10999	Address (Map):	
Owner ID:	2180	City (Map):	
Facility Status:	CLOSED	Facility Contact:	
Facility Name:	ERNEST SCHOFIELD	Facility Phone:	
Fac Add 1:	80 UNION AVE	Facility Lat:	42.36558
Facility City:	SUDBURY	Facility Long:	-71.42001
Fac Name (Map):			
Facility Type:			

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	12-Dec-1991
Con State:		Update By:	
Con Zip:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	ERNEST SCHOFIELD
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	ERNEST SCHOFIELD
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Infomation

Owner Name:	ERNEST SCHOFIELD	Contact Name:	
Owner Add 1:	80 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Organization Type: Private
FR Type:
Business:
Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).
Contact Phone:
Contact E Mail:

Tanks Information

Tank ID:	3	Submersible Sump:	NO
Install Date:	16-Apr-1971	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Jan-1985	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	1	Submersible Sump:	NO
Install Date:	16-Apr-1971	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Jan-1985	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	6000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	2	Submersible Sump:	NO
Install Date:	16-Apr-1971	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Jan-1985	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	3000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Pipe Leak Detect: Pipe Leak Install: Tank Construct: Tank Leak Detect: Tank Corrosion Type: Leak Corrosion Type: Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).						

59	2 of 4	ESE	0.19 / 987.05	131.78 / -62	UNION & PALMER REALTY TRUST 80 UNION STREET SUDBURY MA	HIST LAST
Spill ID:	N89-1502				Repo Units Spilled:	GALLONS
Site ID:	3-3371				Act. Qty Spilled:	10-50
Case Closed:	YES				Act. Units Spilled:	GALLONS
LUST:	NO				Spill Date:	9/7/1989
Incident:	TANK REMOVAL				Spill Time:	
Other Incident:					Rport Date:	9/7/1989
Source:	ABOVE-GRND TANK				Rport Time:	12:00PM
Other Source:					Notifier:	JACK BRUNELL
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	WASTE				First IR Form:	9/25/1989
Material:	WASTE OIL				Staff Lead:	GORRASI, M
Other Material:					Category:	
Enviro Impact:	SOIL				Days For Case:	1
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor:	NOT USED
PCB Ranges:	-----				Referral Divisions:	SA
Reported Qty Spilled:	10-50					
CAS NO for Haz Waste:						
SPL Info. 1st Entered:	10/5/1989					
SPL Info. Last Entered:	10/2/1990					

59	3 of 4	ESE	0.19 / 987.05	131.78 / -62	UNION PALMER REALTY TRUST 80 UNION AVE SUDBURY MA	LAST
RTN:	3-0003371				Phase:	PHASE II
Compliance Status:	RAO				Location Type(s):	
Compl Status Desc:	Response Action Outcome				Site Name (BWSC):	UNION PALMER REALTY TRUST
Compliance Date:	6/4/1998				Address (BWSC):	80 UNION AVE
Notification Date:	10/15/1990				Town (BWSC):	SUDBURY
RAO Class:	A1				Zip Code (BWSC):	01776
Chemical Type:	Oil				OFC Town (BWSC):	SUDBURY
Reporting Category:	NONE				Source(s):	AST
Site Name (EEA Data Portal):	UNION PALMER REALTY TRUST					
Release Add (EEA Data Portal):	80 UNION AVE					
City/Town (EEA Data Portal):	SUDBURY					
Phase Desc:	Comprehensive Site Assessment					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003371					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003371					
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	PHASE II
Current Status Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	04-Jun-1998	OHM:	Oil
OFC Notification:	15-Oct-1990		

Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

Chemical Information

Chemical: PETROLEUM
Amount:
Units:

Action Information

Date: 04-Jun-1998 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 30-Jun-1997 **First Name:**
Action: PHASEI **Last Name:**
Action Description: Phase 1
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 09-Dec-1997 **First Name:**
Action: RAM **Last Name:**
Action Description: Release Abatement Measure
Status: PLANWR
Status Description: Written Plan Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 04-Jun-1998 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 30-Jun-1997 **First Name:**
Action: TREGS **Last Name:**
Action Description:
Status: LSPFA
Status Description:
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 30-Jun-1997 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: TIERII
Status Description: Tier 2 Classification
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 15-Oct-1990 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: TCTRNS
Status Description: Valid Transition Site (Retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 30-Jun-1997 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

59	4 of 4	ESE	0.19 / 987.05	131.78 / -62	UNION PALMER REALTY TRUST 80 UNION AVE SUDBURY MA	RELEASE
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RTN: 3-0003371 **Phase:** PHASE II
Compliance Date: 6/4/1998 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 10/15/1990 **Site Name (BWSC):** UNION PALMER REALTY TRUST
Source: AST **Address (BWSC):** 80 UNION AVE
Reporting Category: NONE **Town (BWSC):** SUDBURY
Site (EEA Data): UNION PALMER REALTY TRUST **Zip Code (BWSC):** 01776
Rel Add(EEA Data): 80 UNION AVE **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003371>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003371>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Status: PLANWR **F Name:**
Date: 09-Dec-1997 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: LSPFA **F Name:**
Date: 30-Jun-1997 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	CSRCVD				F Name:	
Date:	04-Jun-1998				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	CSRCVD				F Name:	
Date:	30-Jun-1997				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TIERII				F Name:	
Date:	30-Jun-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	RAORCD				F Name:	
Date:	04-Jun-1998				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TCTRNS				F Name:	
Date:	15-Oct-1990				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	RECPT				F Name:	
Date:	30-Jun-1997				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	PHASE II
Current St Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	04-Jun-1998	OHM:	Oil
OFC Notification:	15-Oct-1990		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Other Rela:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
60	1 of 1	ESE	0.07 / 355.76	133.45 / -60	MULLEN LUMBER CO INC 28 UNION AVE SUDBURY MA 01776	UST

Facility ID:	10991	Address (Map):	
Owner ID:	4625	City (Map):	
Facility Status:	CLOSED	Facility Contact:	
Facility Name:	MULLEN LUMBER CO INC	Facility Phone:	
Fac Add 1:	28 UNION AVE	Facility Lat:	42.36242
Facility City:	SUDBURY	Facility Long:	-71.42101
Fac Name (Map):			
Facility Type:			

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	02-Sep-1993
Con State:		Update By:	
Con Zip:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	MULLEN LUMBER CO INC
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	MULLEN LUMBER CO INC
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Information

Owner Name:	MULLEN LUMBER CO INC	Contact Name:	
Owner Add 1:	28 UNION AVE	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	SUDBURY	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	01776	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	07-May-1979	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	05-May-1993	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	2000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instld:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tank Corrosion Type:
Leak Corrosion Type:
Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

61	1 of 4	ESE	0.09 / 452.87	133.36 / -60	15 UNION AVENUE 15 UNION AVE SUDBURY MA	LUST
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RTN: 3-0014107
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 4/3/2002
Notification Date: 8/9/1996
RAO Class: A2
Chemical Type: Oil
Reporting Category: 72 HR
Site Name (EEA Data Portal): 15 UNION AVENUE
Release Add (EEA Data Portal): 15 UNION AVE
City/Town (EEA Data Portal): SUDBURY
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0014107>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0014107>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase: PHASE II
Location Type(s): COMMERCIAL
Site Name (BWSC): 15 UNION AVENUE
Address (BWSC): 15 UNION AVE
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY
Source(s): UST

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 03-Apr-2002
OFC Notification: 09-Aug-1996
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 72 HR
Phase: PHASE II
RAO Class: A2
OHM: Oil

Chemical Information

Chemical: VOCS
Amount: 300
Units: PPMV

Chemical: GASOLINE
Amount: 300
Units: PPMV

Action Information

Date: 26-Sep-1997
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status: FLDRAN
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 15-Sep-1997
Action: PHASE I
Action Description: Phase 1
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Date:					First Name:	
Action:	BWS03				Last Name:	
Action Description:						
Status:		APPROV				
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	06-Feb-1997				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:		REPORT				
Status Description:	Reportable Release under MGL 21E					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	21-Nov-1996				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		NON				
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Jan-1998				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		STRCVD				
Status Description:	Status or Interim Report Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	30-Dec-1996				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		RFI				
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	05-Sep-1996				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:	Correspondence Issued					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	08-Dec-1997				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:		FOLFLD				
Status Description:	Follow-up or Other Field Response					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	03-Apr-2002				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		RAORCD				
Status Description:	RAO Statement Received (retired)					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	17-Sep-1996				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		PLANWR				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 27-Jan-1997 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 18-Aug-1997 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 18-Aug-1997 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: TIER1C
Status Description: Tier 1C Classification (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 17-Dec-1997 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: PEREFF
Status Description: Permit Effective Date (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 09-Aug-1996 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

61	2 of 4	ESE	0.09 / 452.87	133.36 / -60	15 UNION AVENUE 15 UNION AVE SUDBURY MA 01776-0000	LST
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Site No: 3-0014107 **Initial Status Dt:** 8/9/1997
Source: UST **Official Notifi Dt:** 8/9/1996
Release Type: RAO **Current Date:** 4/3/2002
Chemical Type: Oil **ROA Class:** A2
Category: 72 HR **Phase:** PHASE II
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Phase Desc: Comprehensive Site Assessment. During Phase II, the risks posed to public health, welfare, and the environment are determined.
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0014107>
Location Type: COMMERCIAL

Chemicals Information

Chemical: VOCS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Amount:			300			
Units:			PPMV			
Chemical:			GASOLINE			
Amount:			300			
Units:			PPMV			
<u>Response Action</u>						
Response Action Type:			PHASEI Phase 1			
Status:			CSRCVD Completion Statement Received			
Submittal Date:			09/15/1997			
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:			RNF Release Notification Form Received			
Status:			REPORT Reportable Release or Threat of Release			
Submittal Date:			02/06/1997			
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:			IRA Immediate Response Action			
Status:			STRCVD Status or Interim Report Received			
Submittal Date:			01/30/1998			
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:			TCLASS Tier Classification			
Status:			PEREFF Permit Effective Date			
Submittal Date:			12/17/1997			
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:			REL Potential Release or Threat of Release			
Status:			REPORT Reportable Release or Threat of Release			
Submittal Date:			08/09/1996			
RAO Class:						
RAO Description:						
Activity and Use Limitation:						
Response Action Type:			RAO Response Action Outcome - RAO			
Status:			RAORCD RAO Statement Received			
Submittal Date:			04/03/2002			
RAO Class:			A2			
RAO Description:			Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.			
Activity and Use Limitation:			NONE			
<u>Licensed Site Professional</u>						
LSP No:			4075			
LSP Name:			LUBY, THOMAS P			
LSP No:			N/A			
LSP Name:			KAEGAEL JR, THEODORE J			
<u>RAO Detail</u>						
Class:			A2			
Method:			1			
GW Category:			1			
Soil Category:			3			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Tier Classification Detail

Imminent Hazard: NO
Zone2: NO
Numerical Rank Scoresheet Totals:
Numerical Rank Scoresheet II: 115
Numerical Rank Scoresheet III: 69
Numerical Rank Scoresheet IV: 95
Numerical Rank Scoresheet V: 20
Numerical Rank Scoresheet VI: 0

61	3 of 4	ESE	0.09 / 452.87	133.36 / -60	15 UNION AVENUE 15 UNION AVE SUDBURY MA 01776-0000	SPILLS
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RTN: 3-0014107
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 4/3/2002
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: COMMERCIAL
Category: 72 HR
Initial Status Date: 8/9/1997
Notification Date: 8/9/1996
Source: UST
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0014107>
Phase: PHASE II
Phase Desc: Comprehensive Site Assessment. During Phase II, the risks posed to public health, welfare, and the environment are determined
Office Town: SUDBURY

Actions

Action: C&E
Status: NON
RAO Class: A2
Date: 11/21/1996
Status Description: NON

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 9/5/1996
Status Description: Correspondence Issued

Action: PHASE I
Status: CSRCVD
RAO Class: A2
Date: 9/15/1997
Status Description: Completion Statement Received

Action: TCLASS
Status: PEREFF
RAO Class: A2
Date: 12/17/1997

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Permit Effective Date (retired)				
Action:		IRA				
Status:		STRCVD				
RAO Class:		A2				
Date:		1/27/1997				
Status Description:		Status or Interim Report Received				
Action:		RLFA				
Status:		FLDRAN				
RAO Class:		A2				
Date:		9/26/1997				
Status Description:		Compliance Field Response - Announced				
Action:		BWS03				
Status:		APPROV				
RAO Class:		A2				
Date:						
Status Description:		APPROV				
Action:		IRA				
Status:		PLANWR				
RAO Class:		A2				
Date:		9/17/1996				
Status Description:		Written Plan Received				
Action:		TCLASS				
Status:		TIER1C				
RAO Class:		A2				
Date:		8/18/1997				
Status Description:		Tier 1C Classification (retired)				
Action:		RAO				
Status:		RAORCD				
RAO Class:		A2				
Date:		4/3/2002				
Status Description:		RAO Statement Received (retired)				
Action:		RLFA				
Status:		FOLFLD				
RAO Class:		A2				
Date:		12/8/1997				
Status Description:		Follow-up or Other Field Response				
Action:		RNF				
Status:		REPORT				
RAO Class:		A2				
Date:		2/6/1997				
Status Description:		Reportable Release under MGL 21E				
Action:		C&E				
Status:		RFI				
RAO Class:		A2				
Date:		12/30/1996				
Status Description:		RFI				
Action:		REL				
Status:		REPORT				
RAO Class:		A2				
Date:		8/9/1996				
Status Description:		Reportable Release under MGL 21E				
Action:		IRA				
Status:		STRCVD				
RAO Class:		A2				
Date:		1/30/1998				
Status Description:		Status or Interim Report Received				
Action:		TCLASS				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		RECPT				
RAO Class:		A2				
Date:		8/18/1997				
Status Description:		Transmittal, Notice, or Notification Received				
<u>Chemical Information</u>						
Chemical:		GASOLINE				
Amount:		300				
Unit:		PPMV				
Chemical:		VOCS				
Amount:		300				
Unit:		PPMV				
<u>LSP Information</u>						
LSP:		N/A				
Name:		KAEGAEL JR, THEODORE J				
LSP:		4075				
Name:		LUBY, THOMAS P				
<u>Response Action Information</u>						
Response Action Type:		RNF Release Notification Form Received				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		02/06/1997				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		TCLASS Tier Classification				
Status:		PEREFF Permit Effective Date				
Submittal Date:		12/17/1997				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		RAORCD RAO Statement Received				
Submittal Date:		04/03/2002				
RAO Class:		A2				
Activity Use Limitation:		NONE				
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		08/09/1996				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHASEI Phase 1				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		09/15/1997				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		IRA Immediate Response Action				
Status:		STRCVD Status or Interim Report Received				
Submittal Date:		01/30/1998				
RAO Class:						
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		A2				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Method:		1				
GW Category:		1				
Soil Category:		3				

Tier Classification Details

RTN Total:	299
NRS II:	115
NRS III:	69
NRS IV:	95
NRS V:	20
NRS VI:	0
Zone 2:	N
Imminent Hazard:	N

Location Information

Location: COMMERCIAL

Source Information

Source: UST

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RTN:	3-0014107	Phase:	PHASE II
Compliance Date:	4/3/2002	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	8/9/1996	Site Name (BWSC):	15 UNION AVENUE
Source:	UST	Address (BWSC):	15 UNION AVE
Reporting Category:	72 HR	Town (BWSC):	SUDBURY
Site (EEA Data):	15 UNION AVENUE	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	15 UNION AVE	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0014107		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0014107		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: VOCS
Amount: 300
Units: PPMV

Chemical: GASOLINE
Amount: 300
Units: PPMV

Action Information (BWSC)

Status:	RECPT	F Name:	
Date:	18-Aug-1997	L Name:	
Action:	TCLASS		
Action Description:	Tier Classification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	A2		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	STRCVD				F Name:	
Date:	27-Jan-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	RFI				F Name:	
Date:	30-Dec-1996				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	PLANWR				F Name:	
Date:	17-Sep-1996				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	CSRCVD				F Name:	
Date:	15-Sep-1997				L Name:	
Action:	PHASE1					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	REPORT				F Name:	
Date:	09-Aug-1996				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	STRCVD				F Name:	
Date:	30-Jan-1998				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	ISSUED				F Name:	
Date:	05-Sep-1996				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	RAORCD				F Name:	
Date:	03-Apr-2002				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	PEREFF				F Name:	
Date:	17-Dec-1997				L Name:	
Action:	TCLASS					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TIER1C				F Name:	
Date:	18-Aug-1997				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Tier 1C Classification (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	NON				F Name:	
Date:	21-Nov-1996				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FLDRAN				F Name:	
Date:	26-Sep-1997				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Announced				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLFLD				F Name:	
Date:	08-Dec-1997				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up or Other Field Response				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	06-Feb-1997				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	PHASE II
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	03-Apr-2002	OHM:	Oil
OFC Notification:	09-Aug-1996		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Project ID: 100224118R1 Project Start Dt: 07/25/2015 Form Type: ANF-001 Project End Dt: 08/09/2015 Project Type: Renv Owner Name: US POSTAL SERVICE Owner address: 18 UNION AVE DLS Contractor: Strategic Environmental Services inc DLS Contractor ID: AC000775 Site Supervisor: RAMON ARIAS Site Supervisor ID: AS061745						
62	2 of 6	ESE	0.08 / 433.37	133.15 / -61	us post office 18 union avenue SUDBURY MA	ASBESTOS PROJECT
Project ID: 200506 Project Start Dt: 04/24/2003 Form Type: ANF-001 Project End Dt: 04/24/2003 Project Type: Repair Owner Name: us post office Owner address: 18 union avenue DLS Contractor: EAGLE ENVIRONMENTAL CONTRACTORS DLS Contractor ID: AC000385 Site Supervisor: ANGEL A GARCIA Site Supervisor ID: AS060800						
62	3 of 6	ESE	0.08 / 433.37	133.15 / -61	POST OFFICE 18 UNION ST SUDBURY MA	ASBESTOS PROJECT
Project ID: 100069566 Project Start Dt: 04/07/2008 Form Type: ANF-001 Project End Dt: 04/07/2008 Project Type: Rpr Owner Name: USPS Owner address: 18 UNION ST DLS Contractor: EAGLE ABATEMENT SERVICES INC DLS Contractor ID: AC000443 Site Supervisor: CHARLES P. FLAHERTY Site Supervisor ID: AS011638						
62	4 of 6	ESE	0.08 / 433.37	133.15 / -61	USPS SUDBURY 18 UNION AVE. SUDBURY MA	ASBESTOS PROJECT
Project ID: 100016560 Project Start Dt: 05/09/2005 Form Type: ANF-001 Project End Dt: 05/09/2005 Project Type: Rpr Owner Name: USPS SUDBURY Owner address: 18 UNION AVE. DLS Contractor: EAGLE ENVIRONMENTAL CONTRACTORS DLS Contractor ID: AC000385 Site Supervisor: DANIEL LORA Site Supervisor ID: AS030359						
62	5 of 6	ESE	0.08 / 433.37	133.15 / -61	SUDBURY POST OFFICE 18 UNION AVE SUDBURY MA	ASBESTOS PROJECT
Project ID: 100224118 Project Start Dt: 07/25/2015 Form Type: ANF-001 Project End Dt: 08/02/2015 Project Type: Renv Owner Name: US POSTAL SERVICE Owner address: 18 UNION AVE						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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DLS Contractor: Strategic Environmental Services inc
DLS Contractor ID: AC000775
Site Supervisor: RAMON ARIAS
Site Supervisor ID: AS061745

62	6 of 6	ESE	0.08 / 433.37	133.15 / -61	US POST OFFICE 18 UNION AVE SUDBURY MA	ASBESTOS PROJECT
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Project ID: 100030312 **Project Start Dt:** 04/09/2006
Form Type: ANF-001 **Project End Dt:** 04/09/2006
Project Type: Rpr
Owner Name: US POSTAL SERVICE
Owner address: 18 UNION AVE
DLS Contractor: EAGLE ENVIRONMENTAL CONTRACTORS
DLS Contractor ID: AC000385
Site Supervisor: ANGEL A GARCIA
Site Supervisor ID: AS060800

63	1 of 3	WNW	0.07 / 372.65	223.66 / 30	CONTRONAUTICS INCORPORATED 31 WILKINS HUDSON MA 01749	GEN
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EPA ID No: MAR000526368
2nd Name:
Phone: 978-568-8883

63	2 of 3	WNW	0.07 / 372.65	223.66 / 30	CONTRONAUTICS, INCORPORATED 31 WILKINS HUDSON MA 01749	RCRA CESQG
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EPA Handler ID: MAR000526368
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: ROBERT SIWKO
Contact Address: 31 , WILKINS STREET, PO BOX 171 , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 978-568-8883
Contact Email: SALES@CONTRONAUTICS.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20180814

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20180814
Handler Name: CONTRONAUTICS, INCORPORATED
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	610
Type:	Private	Street 1:	BRIGHAM STREET
Name:	JOHN SIWKO	Street 2:	
Date Became Current:		City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752

Owner/Operator Ind:	Current Owner	Street No:	171
Type:	Private	Street 1:	CONRAD ROAD
Name:	ERIC SIWKO	Street 2:	
Date Became Current:		City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752

Owner/Operator Ind:	Current Owner	Street No:	610
Type:	Private	Street 1:	BRIGHAM STREET
Name:	DOLORES SIWKO	Street 2:	
Date Became Current:		City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752

Owner/Operator Ind:	Current Owner	Street No:	171
Type:	Private	Street 1:	CONRAD ROAD
Name:	JANINA SIWKO	Street 2:	
Date Became Current:		City:	MARLBOROUGH
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01752

Owner/Operator Ind:	Current Operator	Street No:	31
Type:	Private	Street 1:	WILKINS STREET, PO BOX 171
Name:	CONTRONAUTICS, INCORPORATED	Street 2:	
Date Became Current:		City:	HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Ended Current:					State:	MA
Phone:					Country:	US
Source Type:		Notification			Zip Code:	01749

63	3 of 3	WNW	0.07 / 372.65	223.66 / 30	PAUL MCGUIRE 31 WILKINS ST HUDSON MA	ASBESTOS PROJECT
Project ID:	100326574			Project Start Dt:	04/16/2020	
Form Type:	ANF-001			Project End Dt:	05/01/2020	
Project Type:	Dem					
Owner Name:	PAUL MCGUIRE					
Owner address:	31 WILKINS ST					
DLS Contractor:	NEW ENGLAND ASBESTOS ABATEMENT					
DLS Contractor ID:	AC000677					
Site Supervisor:	JOAN BERTON					
Site Supervisor ID:	AS002057					

64	1 of 10	ESE	0.17 / 884.40	136.09 / -58	SUDBURY MOBIL 432 BOSTON POST RD SUDBURY MA 01776	UST
Facility ID:	11006			Address (Map):	432 BOSTON POST RD	
Owner ID:	1036245			City (Map):	SUDBURY	
Facility Status:	OPEN			Facility Contact:	Antione Lakkis	
Facility Name:	SUDBURY MOBIL			Facility Phone:	9784435697	
Fac Add 1:	432 BOSTON POST RD			Facility Lat:	42.36099	
Facility City:	SUDBURY			Facility Long:	-71.42268	
Fac Name (Map):	EXXONMOBIL OIL CORP					
Facility Type:	Retail Motor Vehicle Fuel Dispensing					

Facility Information Details

Con Add 1:	204 main st			Con Phone:	9784432440
Con Add 2:				Con Email:	sudburymobil@aol.com
Con City:	acton			Update Date:	10-Feb-2020
Con State:	MA			Update By:	Edward Weatherhead
Con Zip:	01720				
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).				

Searchable UST Facility Details

Status:	OPEN			Owner Name:	JOHNNY REALTY, LLC
Last Inspection Dt:	2/11/2019			Owner Contact Name:	Antione Lakkis
Next Insp Due Date:	2/14/2022			Operator Name:	JOHNNY REALTY, LLC
Last Cert Compl Dt:	7/23/2020			Oper Contact Name:	Antione Lakkis
Next Cert Compl Due:	8/14/2023				

Owner Infomation

Owner Name:	JOHNNY REALTY, LLC			Contact Name:	Antione Lakkis
Owner Add 1:	432 BOSTON POST ROAD			Contact Add 1:	204 main st
Owner Add 2:				Contact Add 2:	
Owner City Town:	SUDBURY			Contact City Town:	acton
Owner State:	MA			Contact State:	MA
Owner Zip:	01776			Contact Zip:	01720
Organization Type:	Private			Contact Phone:	9784432440
FR Type:				Contact E Mail:	sudburymobil@aol.com
Business:	Limited Liability Company				
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tanks Information

Tank ID:	5	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	14-Jun-1989	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Waste Oil	Interm Sump Sensor:	NO
Capacity:	500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	3	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	05-May-1993	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	4	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	14-Jun-1989	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Waste Oil	Interm Sump Sensor:	NO
Capacity:	500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Note:		This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).				
Tank ID:	9				Submersible Sump:	NO
Install Date:	01-Nov-1989				Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	05-Nov-2008				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Waste Oil				Interm Sump Sensor:	NO
Capacity:	500.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:	Double-walled non-corrodible (including "composite") material (cathodic protection not required)					
Tank Leak Detect:	Continuous Interstitial Monitoring					
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:		This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).				
Tank ID:	6				Submersible Sump:	YES
Install Date:	01-Nov-1989				Submer Sump Instl:	
Status:	In Use				Turbine Sump:	YES
Status Date:					Turb Sump Sensor:	YES
Use Type:	Motor Vehicle				Intermediate Sump:	NO
Content:	Gasoline				Interm Sump Sensor:	NO
Capacity:	10000.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	Ball Float
Auto Line Lk Dtect:						
Pipe Install Date:	01-Nov-1989					
Pipe Type:	Pressurized piping system with electronic automatic line leak detection					
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)					
Pipe Leak Detect:	Continuous Interstitial Space Monitoring					
Pipe Leak Install:						
Tank Construct:	Double-walled non-corrodible (including "composite") material (cathodic protection not required)					
Tank Leak Detect:	Continuous Interstitial Monitoring					
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:		This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).				
Tank ID:	10				Submersible Sump:	NO
Install Date:					Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	05-Nov-2008				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Bulk Heating or Fuel Oil (#2,#4,#6)				Interm Sump Sensor:	NO
Capacity:	550.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	1	Submersible Sump:	NO
Install Date:	01-May-1983	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	14-Jun-1989	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	6000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	8	Submersible Sump:	NO
Install Date:	01-Nov-1989	Submer Sump Instl:	
Status:	Tank Closure In-Place	Turbine Sump:	YES
Status Date:	05-Apr-2019	Turb Sump Sensor:	YES
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	6000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	Automatic shut-off valve
Auto Line Lk Dtect:			
Pipe Install Date:	01-Nov-1989		
Pipe Type:	European suction system		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Quarterly visual inspection and annual product line tightness test		
Pipe Leak Install:			
Tank Construct:	Double-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous Interstitial Monitoring		
Tank Corrosion Type:			
Leak Corrosion Type:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	7	Submersible Sump:	YES
Install Date:	01-Nov-1989	Submer Sump Instl:	
Status:	In Use	Turbine Sump:	YES
Status Date:		Turb Sump Sensor:	YES
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	Ball Float
Auto Line Lk Dtect:			
Pipe Install Date:	01-Nov-1989		
Pipe Type:	Pressurized piping system with electronic automatic line leak detection		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:			
Tank Construct:	Double-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous Interstitial Monitoring		
Tank Corrosion Type:			
Leak Corrosion Type:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	2	Submersible Sump:	NO
Install Date:	30-Apr-1968	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	14-Jun-1989	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

MassGIS Data : MassDEP UST (as of April 2016)

Fac ID:	367807	Town:	SUDBURY
UST ID:	11006	Region:	3
Root ID:	371727	Region Desc:	Northeast Region - Wilmington
Ro Acct:	0	Point X:	0
Fac Name:	EXXONMOBIL OIL CORP	Point Y:	0
Address:	432 BOSTON POST RD		

DEP Location Documentation (as of April 2016)

Automation Date:	25-Apr-2007	Location Type:	CB
Primary Loc Dt:		Location Method:	Location snapped to point feature in an existing digital data source
Secondary Loc Dt:		Point X:	0
Tertiary Loc Dt:		Point Y:	0
Location Base Map:	Digital orthophoto base map (DOQ)		
Location Accuracy Estimate:	Estimated horizontal accuracy is +/-16 - +/-100 feet		
Primary Location Source:	DEP BWSC Chapter 21E Tier Classified Oil or Hazardous Materials datalayer		
Secondary Location Source:			
Tertiary Location Source:			

64	2 of 10	ESE	0.17 / 884.40	136.09 / -58	MOBIL STATION 432 BOSTON POST RD SUDBURY MA	LUST
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RTN:	3-0002423	Phase:	PHASE V
Compliance Status:	RAO	Location Type(s):	GASSTATION
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	MOBIL STATION
Compliance Date:	9/13/2006	Address (BWSC):	432 BOSTON POST RD
Notification Date:	2/12/1990	Town (BWSC):	SUDBURY
RAO Class:	C1	Zip Code (BWSC):	01776-0000
Chemical Type:	Oil and Hazardous Material	OFC Town (BWSC):	SUDBURY
Reporting Category:	120 DY	Source(s):	UST, USTOTHER
Site Name (EEA Data Portal):	MOBIL STATION		
Release Add (EEA Data Portal):	432 BOSTON POST RD		
City/Town (EEA Data Portal):	SUDBURY		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002423>

Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002423>

Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:	3-0002423	Category:	120 DY
Current Status:	RAO	Phase:	PHASE V
Current Status Desc:	Response Action Outcome	RAO Class:	C1
Current Date:	13-Sep-2006	OHM:	Oil and Hazardous Material
OFC Notification:	12-Feb-1990		
Phase Desc:	Operation, Maintenance and/or Monitoring		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Other Rela:

Chemical Information

Chemical: BENZO[B]FLUORANTHENE
Amount: 18.3
Units: UG/L

Chemical: 2-METHYLNAPHTHALENE
Amount: 27.9
Units: UG/L

Chemical: GASOLINE
Amount:
Units:

Action Information

Date:	12-Jul-2001	First Name:	
Action:	PHASEV	Last Name:	
Action Description:	Phase 5		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	C1		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Date:	17-Jul-2002	First Name:	
Action:	PHASEV	Last Name:	
Action Description:	Phase 5		
Status:	IMRCD		
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)		
RAO Class:	C1		
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible		

Date:	01-Aug-2001	First Name:	
Action:	PHASEV	Last Name:	
Action Description:	Phase 5		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		SNAUDI				
Status Description:		Level II - Audit Inspection				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	20-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	08-Apr-1999				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Sep-2002				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	25-Sep-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFVIO					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	10-Aug-2015				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Aug-2018				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:					First Name:	
Action:	BWS20				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Feb-1990				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Mar-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	10-Mar-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Mar-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	09-Sep-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Sep-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	05-Aug-2004				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Mar-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIER1B					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Mar-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	07-Sep-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Sep-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Mar-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Sep-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVMP					
Status Description:	RTN Linked to TCLASS Via Minor Permit Modification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	22-May-2002				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-Jan-2004				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Feb-2016				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Feb-2015				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCDD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Sep-2012				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCDD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	16-Sep-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	17-Mar-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	17-Nov-1998				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	22-Jul-1994				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	BWSC05					
Status Description:						
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	02-Nov-2001				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	TERMIN					
Status Description:	Action Status or AUL Terminated					
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	31-Aug-1999				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	11-Mar-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Sep-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	30-Jan-2004				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	03-Feb-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	10-Mar-2017				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Sep-2011				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Aug-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Jul-1994				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jul-2005				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	29-Jul-2005				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Mar-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	20-Mar-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	12-Feb-1990				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Feb-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Oct-2013				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Sep-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	14-Mar-2013				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Sep-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSEVAL					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	21-Jan-2005				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVIC					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Dec-2000				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Sep-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Mar-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	15-Sep-2015				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Apr-2006				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Sep-2006				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LNKVTC					
Status Description:	RTN Linked to TCLASS Via Tier Classification Submittal					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Aug-2000				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREFF					
Status Description:	Permit Effective Date (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	18-Apr-2000				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	PEREXT					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:					First Name:	
Action:	BWS10				Last Name:	
Action Description:						
Status:	APPROV					
Status Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	27-Jan-2006				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	22-Mar-2018				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	09-Sep-2008				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	26-Nov-2003				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Feb-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		STRCVD				
Status Description:		Status or Interim Report Received				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	31-Aug-2009				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	17-Sep-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	21-Jan-2005				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	31-Jul-2003				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	11-Feb-2002				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:		IMRCD				
Status Description:		Post-RAO C Status Report Received (Ph V-prior to 05 only)				
RAO Class:		C1				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Date:	30-Jul-2004				First Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	08-Oct-2013				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	11-Mar-2010				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Sep-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	17-Jun-2004				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	LEGNOT					
Status Description:	Legal Notice Published					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Jan-2001				First Name:	
Action:	PHASEV				Last Name:	
Action Description:	Phase 5					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	02-Oct-1998				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Aug-2014				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Mar-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	15-Sep-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Sep-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	25-Sep-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Date:	21-Apr-1999				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	INTLET					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Aug-2004				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	NON					
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	13-Mar-2014				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	16-Mar-2020				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	20-Mar-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	IMRCD					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Date:	14-Mar-2016				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RMRINT					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

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RTN:	3-0028383	Phase:	PHASE II
Compliance Date:	3/13/2012	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	3/16/2009	Site Name (BWSC):	MOBIL STATION
Source:	UNKNOWN	Address (BWSC):	432 BOSTON POST RD
Reporting Category:	120 DY	Town (BWSC):	SUDBURY
Site (EEA Data):	MOBIL STATION	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	432 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0028383		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0028383		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Amount: 297
Units: UG/L

Chemical: ZINC
Amount: 8440
Units: UG/L

Chemical: 2-METHYLNAPHTHALENE
Amount: 0.882
Units: MG/KG

Chemical: CHROMIUM
Amount: 140
Units: UG/L

Chemical: THALLIUM
Amount: 3.2
Units: UG/L

Chemical: BENZO[B]FLUORANTHENE
Amount: 42.9
Units: UG/L

Chemical: VANADIUM OXIDE
Amount: 181
Units: UG/L

Chemical: ARSENIC
Amount: 80
Units: UG/L

Chemical: BENZO[G,H,I]PERYLENE
Amount: 31
Units: UG/L

Chemical: PYRENE
Amount: 42.4
Units: UG/L

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Chemical:		C9 THRU C18 ALIPHATIC HYDROCARBONS				
Amount:		8040				
Units:		UG/L				
Chemical:		CADMIUM				
Amount:		17				
Units:		UG/L				
Chemical:		C11 THRU C22 AROMATIC HYDROCARBONS				
Amount:		75000				
Units:		UG/L				
Chemical:		C19 THRU C36 ALIPHATIC HYDROCARBONS				
Amount:		3180				
Units:		MG/KG				
Chemical:		ANTIMONY				
Amount:		8.8				
Units:		UG/L				
Chemical:		BERYLLIUM				
Amount:		8				
Units:		UG/L				
Chemical:		NICKEL				
Amount:		109				
Units:		UG/L				
Chemical:		LEAD				
Amount:		948				
Units:		UG/L				
Chemical:		BENZO[A]PYRENE				
Amount:		56.2				
Units:		UG/L				
Chemical:		C11 THRU C22 AROMATIC HYDROCARBONS				
Amount:		1370				
Units:		MG/KG				

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 04-Apr-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ALSENT **F Name:**
Date: 13-Jan-2010 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: PEREFF **F Name:**
Date: 21-Apr-2010 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REVRCD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	11-Mar-2010				L Name:	
Action:	RNFE					
Action Description:	Release Notification					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	TIER1C				F Name:	
Date:	12-Mar-2010				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1C Classification (retired)					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS03					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	CSRCVD				F Name:	
Date:	12-Mar-2010				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	SOW				F Name:	
Date:	12-Mar-2010				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	16-Mar-2009				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	16-Mar-2009				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	RAORCD				F Name:	
Date:	13-Mar-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	PEREFF				F Name:	
Date:	20-Oct-2010				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:	B1					

RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: PERTRN **F Name:**
Date: 10-Sep-2010 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Transfer Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 11-Mar-2010 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: APPROV **F Name:**
Date: **L Name:**
Action: BWS30
Action Description:
Status Description:
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RECPT **F Name:**
Date: 12-Mar-2010 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 13-Mar-2012 **OHM:** Oil and Hazardous Material
OFC Notification: 16-Mar-2009
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

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RTN: 3-0028384 **Phase:**
Compliance Date: 3/10/2010 **RAO Class:** B1
Compliance Status: RAO **Chemical Type:** Oil and Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 3/16/2009 **Site Name (BWSC):** MOBIL STATION
Source: UNKNOWN **Address (BWSC):** 432 BOSTON POST RD
Reporting Category: 120 DY **Town (BWSC):** SUDBURY
Site (EEA Data): MOBIL STATION **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 432 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0028384>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0028384>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 5810
Units: UG/L

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 8070
Units: UG/L

Chemical: BENZO[A]PYRENE
Amount: 3.49
Units: MG/KG

Chemical: 2-METHYLNAPHTHALENE
Amount: 32.2
Units: UG/L

Chemical: ACENAPHTHYLENE
Amount: 1.13
Units: MG/KG

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 04-Apr-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ALSENT **F Name:**
Date: 13-Jan-2010 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FEEREC **F Name:**
Date: 11-Mar-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 16-Mar-2009 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 10-Mar-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 16-Mar-2009 **L Name:**
Action: RNF

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TSAUD **F Name:**
Date: 02-Aug-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 10-Mar-2010 **OHM:** Oil and Hazardous Material
OFC Notification: 16-Mar-2009
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

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RTN: 3-0026036 **Phase:**
Compliance Date: 9/20/2006 **RAO Class:**
Compliance Status: RTN CLOSED **Chemical Type:** Hazardous Material
Compl Status Desc: Release Tracking Number Closed **Location Type:**
Notification Date: 4/11/2006 **Site Name (BWSC):** MOBIL SERVICE STA #10381 (FRMR 01-474)
Source: **Address (BWSC):** 432 BOSTON POST RD
Reporting Category: 120 DY **Town (BWSC):** SUDBURY
Site (EEA Data): MOBIL SERVICE STA #10381 (FRMR 01-474) **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 432 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0026036>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0026036>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: 2-METHYLNAPHTHALENE
Amount: 27.9
Units: UG/L

Chemical: BENZO[B]FLUORANTHENE
Amount: 18.3
Units: UG/L

Action Information (BWSC)

Status: IMRCD **F Name:**
Date: 13-Mar-2014 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 16-Mar-2020 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 29-Aug-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 31-Aug-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 20-Sep-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 09-Sep-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: RTCLSS **F Name:**
Date: 20-Sep-2006 **L Name:**
Action: RAONR
Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 11-Apr-2006 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 14-Mar-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 22-Mar-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Date: 10-Mar-2017 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RMR Interim Report Received

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Date: 14-Mar-2013 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RMR Interim Report Received

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Date: 29-Aug-2018 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RMR Interim Report Received

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Date: 15-Sep-2015 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RMR Interim Report Received

RAO Class:

RAO Class Desc:

Status: ISSUED **F Name:**

Date: 17-Aug-2006 **L Name:**

Action: NOR

Action Description: Notice of Responsibility

Status Description: Correspondence Issued

RAO Class:

RAO Class Desc:

Status: IMRCD **F Name:**

Date: 13-Mar-2008 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

RAO Class:

RAO Class Desc:

Status: RAORCD **F Name:**

Date: 13-Sep-2006 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RAO Statement Received (retired)

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Date: 14-Mar-2016 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: RMR Interim Report Received

RAO Class:

RAO Class Desc:

Status: RMRINT **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	20-Mar-2019 RAO				L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 16-Sep-2017 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 10-Mar-2017 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 15-Mar-2012 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 13-Mar-2014 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RMRINT 16-Mar-2020 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 11-Mar-2010 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 13-Mar-2007 RAO				F Name: L Name:	
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IMRCD 14-Mar-2013 RAO				F Name: L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		07-Sep-2010			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		13-Sep-2011			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		14-Sep-2012			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		15-Sep-2015			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		RMRINT			F Name:	
Date:		11-Mar-2015			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			RMR Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		20-Mar-2019			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		09-Sep-2008			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		IMRCD			F Name:	
Date:		17-Sep-2007			L Name:	
Action:		RAO				
Action Description:			Response Action Outcome -RAO			
Status Description:			Post-RAO C Status Report Received (Ph V-prior to 05 only)			
RAO Class:						
RAO Class Desc:						
Status:		TSEVAL			F Name:	
Date:		14-Sep-2011			L Name:	
Action:		RAO				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	09-Sep-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	15-Sep-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	16-Sep-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	14-Sep-2012				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	15-Sep-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:						
RAO Class Desc:						
Status:	RMRINT				F Name:	
Date:	16-Sep-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	11-Mar-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	13-Mar-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: IMRCD **F Name:**
Date: 15-Mar-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: IMRCD **F Name:**
Date: 16-Sep-2019 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 22-Mar-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 20-Sep-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 11-Apr-2006 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:
Current Status: RAONR **Category:** 120 DY
Current St Desc: RAO Not Required **Phase:**
Current Date: 20-Sep-2006 **RAO Class:**
OFC Notification: 11-Apr-2006 **OHM:** Hazardous Material
Phase Desc:
RAO Class Desc:
Other Rela:

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RTN: 3-0024771 **Phase:**
Compliance Date: 2/9/2006 **RAO Class:**
Compliance Status: RTN CLOSED **Chemical Type:** Hazardous Material
Compl Status Desc: Release Tracking Number Closed **Location Type:** COMMERCIAL
Notification Date: 4/13/2005 **Site Name (BWSC):** MOBIL STATION 01-474
Source: UNKNOWN **Address (BWSC):** 432 BOSTON POST RD
Reporting Category: 72 HR **Town (BWSC):** SUDBURY
Site (EEA Data): MOBIL STATION 01-474 **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 432 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0024771
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0024771
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: MTBE
Amount: 21.1
Units: UG/L

Action Information (BWSC)

Status: STRCVD **F Name:**
Date: 29-Jul-2005 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: LNKVIC **F Name:**
Date: 21-Jan-2005 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class:
RAO Class Desc:

Status: REVRCD **F Name:**
Date: 17-Nov-1998 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Revised Statement or Transmittal Received
RAO Class:
RAO Class Desc:

Status: LNKVIC **F Name:**
Date: 09-Feb-2006 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class:
RAO Class Desc:

Status: LNKVMP **F Name:**
Date: 20-Sep-2006 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via Minor Permit Modification (retired)
RAO Class:
RAO Class Desc:

Status: PEREFF **F Name:**
Date: 22-Jul-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class:
RAO Class Desc:

Status: ALSENT **F Name:**
Date: 06-Mar-2006 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	13-Apr-2005				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	17-Sep-2002				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	LEGNOT				F Name:	
Date:	17-Jun-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Legal Notice Published					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	13-Apr-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	25-May-2005				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	17-Aug-2000				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	TIER1B				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	09-Feb-2006				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Immediate Response Action				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	18-Apr-2000				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						
RAO Class Desc:						
Status:	ASSESS				F Name:	
Date:	13-Apr-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		IRA Assessment Only				
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	12-May-2005				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	LNKVTC				F Name:	
Date:	20-Sep-2006				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		RTN Linked to TCLASS Via Tier Classification Submittal				
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	08-Apr-1999				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	22-May-2002				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	05-Aug-2004				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	25-May-2005				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: RTCLSS
Date: 09-Feb-2006
Action: RAONR
Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAONR
Current St Desc: RAO Not Required
Current Date: 09-Feb-2006
OFC Notification: 13-Apr-2005
Phase Desc:
RAO Class Desc:
Other Rela:

Category: 72 HR
Phase:
RAO Class:
OHM: Hazardous Material

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RTN: 3-0023726
Compliance Date: 1/21/2005
Compliance Status: RTN CLOSED
Compl Status Desc: Release Tracking Number Closed
Notification Date: 4/1/2004
Source: UNKNOWN
Reporting Category: 72 HR
Site (EEA Data): MOBIL SERVICE STATION 01-474
Rel Add(EEA Data): 432 BOSTON POST RD
Town (EEA Data): SUDBURY

Phase:
RAO Class:
Chemical Type: Hazardous Material
Location Type:
Site Name (BWSC): MOBIL SERVICE STATION 01-474
Address (BWSC): 432 BOSTON POST RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0023726>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0023726>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: BENZENE
Amount: 3
Units: PPM

Chemical: MTBE
Amount: 129000
Units: UG/L

Chemical: XYLENE
Amount: 11320
Units: UG/L

Chemical: MTBE
Amount: 129
Units: PPM

Chemical: TOLUENE
Amount: 28500
Units: UG/L

Action Information (BWSC)

Status: ISSUED
F Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	29-Apr-2004				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	21-Jul-2004				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	21-Jan-2005				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		RTN Linked to TCLASS Via IRA Completion Statement				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	18-Apr-2000				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	22-May-2002				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						
Status:	ASSESS				F Name:	
Date:	01-Apr-2004				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		IRA Assessment Only				
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	22-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Effective Date (retired)				
RAO Class:						
RAO Class Desc:						
Status:	PEREXT				F Name:	
Date:	05-Aug-2004				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Permit Extension Received (retired)				
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	LEGNOT				F Name:	
Date:	17-Jun-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Legal Notice Published					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	17-Aug-2000				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	TIER1B				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	28-May-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	30-Jul-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	LNKVIC				F Name:	
Date:	09-Feb-2006				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	21-Jan-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	01-Apr-2004				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	LNKVMP				F Name:	
Date:	20-Sep-2006				L Name:	
Action:	TCLASS					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via Minor Permit Modification (retired)
RAO Class:
RAO Class Desc:

Status: LNKVTC **F Name:**
Date: 20-Sep-2006 **L Name:**
Action: TCLASS

Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via Tier Classification Submittal
RAO Class:
RAO Class Desc:

Status: PEREFF **F Name:**
Date: 17-Sep-2002 **L Name:**
Action: TCLASS

Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class:
RAO Class Desc:

Status: PLANMD **F Name:**
Date: 30-Jul-2004 **L Name:**
Action: IRA

Action Description: Immediate Response Action
Status Description: Modified Revised or Updated Plan Received
RAO Class:
RAO Class Desc:

Status: RTCLSS **F Name:**
Date: 21-Jan-2005 **L Name:**
Action: RAONR

Action Description: RAO Not Required
Status Description: Linked to a Tier Classified Site
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 28-May-2004 **L Name:**
Action: RNF

Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: PEREFF **F Name:**
Date: 08-Apr-1999 **L Name:**
Action: TCLASS

Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class:
RAO Class Desc:

Status: REVRCD **F Name:**
Date: 17-Nov-1998 **L Name:**
Action: TCLASS

Action Description: Tier Classification
Status Description: Revised Statement or Transmittal Received
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAONR **Phase:**
Current St Desc: RAO Not Required **RAO Class:**
Current Date: 21-Jan-2005 **OHM:** Hazardous Material
OFC Notification: 01-Apr-2004

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc:
Other Rela:

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EPA Handler ID: MAD985296128
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: JAMIE COOK
Contact Address: 404 WYMAN ST , SUITE 425 , WALTHAM , MA, 02451-0000 , US
Contact Phone No and Ext: 781-674-7781
Contact Email: JCOOK@ALLIANCEENERGY.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20100913

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 302
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970915
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 314(1)(a)
Violation Short Description: Generators - Manifest
Violation Type: 262.B
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Enforcement Type Description:		WRITTEN INFORMAL				
Enforcement Action Date:		19970505				
Enf Disposition Status:						
Disposition Status Date:						
Enforcement Lead Agency:		State				
Proposed Penalty Amount:						
Final Amount:						
Paid Amount:						

Violation Details

Citation: SR - 331(1)
Violation Short Description: Generators - Manifest
Violation Type: 262.B
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(k)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 253(5)(b)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed

Actual Return to Compl: 19970718
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19970505
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 351(9)(c)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19970326
 Scheduled Compliance Date: 19970607
 Return to Compliance: Observed
 Actual Return to Compl: 19970718
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19970505
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(1)(b)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 19970326
 Scheduled Compliance Date: 19970607
 Return to Compliance: Observed
 Actual Return to Compl: 19970718
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 19970505
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 685(1)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 686
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 19970326
Scheduled Compliance Date: 19970607
Return to Compliance: Observed
Actual Return to Compl: 19970718
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19970505
Enf Disposition Status:
Disposition Status Date:

Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 19970718
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19970326
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Manifest
Return to Compliance Date: 19970718
Evaluation Agency: State

Evaluation Start Date: 19970326
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 19970718
Evaluation Agency: State

Evaluation Start Date: 19970326
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19970915
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910412
Handler Name: MOBIL 2477
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D008

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Description: LEAD

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920327
Handler Name: MOBIL OIL CORP.
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20020301
Handler Name: EXXON MOBILE OIL CORP.
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20040302
Handler Name: EXXON MOBIL OIL CORP
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20040304
Handler Name: MOBIL 2477
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20050206
Handler Name: MOBIL 2477
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20050615
Handler Name: MOBIL 2477
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 5
Receive Date: 20100913
Handler Name: MOBIL 2477
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator

Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Hazardous Waste Code: MA95
Waste Code Description: UNIVERSAL WASTE

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 404 WYMAN ST
Name: GLOBAL COMPANIES LLC	Street 2: SUITE 425
Date Became Current: 20100908	City: WALTHAM
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 02451-0000
Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 12265 WEST BAYAUD AVE
Name: EXXONMOBIL OIL CORP	Street 2:
Date Became Current: 20020401	City: LAKEWOOD
Date Ended Current:	State: CO
Phone:	Country: US
Source Type: Notification	Zip Code: 80228-0000
Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: CORP-GP2-911
Name: EXXONMOBIL OIL CORPORATION	Street 2: 16825 NORTHCHASE DRIVE, ROOM 9
Date Became Current: 20020401	City: HOUSTON
Date Ended Current:	State: TX
Phone:	Country: US
Source Type: Notification	Zip Code: 77060-0000
Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: PO BOX 142667
Name: MOBIL OIL CORP	Street 2:
Date Became Current: 20041016	City: AUSTIN
Date Ended Current:	State: TX
Phone:	Country: US
Source Type: Notification	Zip Code: 78714-2667
Owner/Operator Ind: Current Operator	Street No: 432
Type: Private	Street 1: BOSTON POST RD
Name: ABE AND NAHED, INC.	Street 2:
Date Became Current: 19040401	City: SUDBURY
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Annual/Biennial Report	Zip Code: 01776-3010
Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: CORP-GP2-911
Name: EXXONMOBIL OIL CORPORATION	Street 2: 16825 NORTHCHASE DRIVE, ROOM 9

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date Became Current:	20020401				City: HOUSTON	
Date Ended Current:					State: TX	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 77060-0000	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1: PO BOX 142667	
Name:	EXXONMOBIL OIL CORP				Street 2:	
Date Became Current:	20020401				City: AUSTIN	
Date Ended Current:					State: TX	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 78714-2667	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1: 404 WYMAN ST	
Name:	GLOBAL COMPANIES LLC				Street 2: SUITE 425	
Date Became Current:	20100908				City: WALTHAM	
Date Ended Current:					State: MA	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 02451-0000	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	
Name:	EXXON MOBIL OIL CORP.				Street 2:	
Date Became Current:	19040401				City:	
Date Ended Current:					State:	
Phone:					Country: US	
Source Type:	Annual/Biennial Report				Zip Code:	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1: 12265 WEST BAYAUD AVE	
Name:	EXXONMOBIL OIL CORP				Street 2:	
Date Became Current:	20020618				City: LAKEWOOD	
Date Ended Current:					State: CO	
Phone:					Country: US	
Source Type:	Notification				Zip Code: 80228-0000	

Historical Handler Details

Receive Dt:	20050615
Generator Code Description:	Very Small Quantity Generator
Handler Name:	MOBIL 2477
Receive Dt:	20050206
Generator Code Description:	Large Quantity Generator
Handler Name:	MOBIL 2477
Receive Dt:	20040304
Generator Code Description:	Large Quantity Generator
Handler Name:	MOBIL 2477
Receive Dt:	20040302
Generator Code Description:	Large Quantity Generator
Handler Name:	EXXON MOBIL OIL CORP
Receive Dt:	20020301
Generator Code Description:	Large Quantity Generator
Handler Name:	EXXON MOBILE OIL CORP.
Receive Dt:	19920327
Generator Code Description:	Large Quantity Generator
Handler Name:	MOBIL OIL CORP.
Receive Dt:	19910412
Generator Code Description:	Not a Generator, Verified
Handler Name:	MOBIL 2477

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
64	9 of 10	ESE	0.17 / 884.40	136.09 / -58	MOBIL STATION 432 BOSTON POST RD SUDBURY MA 01776-0000	LST

Site No: 3-0002423
Source: UST,USTOTHER
Release Type: RAO
Chemical Type: Oil and Hazardous Material
Category: 120 DY
ROA Class Desc: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.
Phase Desc: Operation, Maintenance, and/or Monitoring. During Phase V, long-term treatment processes are implemented and monitored to track cleanup progress.
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0002423>
Location Type: GASSTATION

Chemicals Information

Chemical: GASOLINE
Amount:
Units:

Chemical: 2-METHYLNAPHTHALENE
Amount: 27.9
Units: UG/L

Chemical: BENZO[B]FLUORANTHENE
Amount: 18.3
Units: UG/L

Response Action

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 04/11/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 02/16/2016
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASEV Phase 5
Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 07/29/2005
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: IMRCD Post-RAO C Status Report Received (Ph V-prior to 05 only)
Submittal Date: 03/10/2017
RAO Class: C1
RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.
Activity and Use Limitation: NONE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Type: TCLASS Tier Classification
Status: LNKVTC RTN Linked to TCLASS Via Tier Classification Submittal
Submittal Date: 09/20/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASIV Phase 4
Status: STRCVD Status or Interim Report Received
Submittal Date: 01/27/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 02/12/1990
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: N/A
LSP Name: SWANSON, WILLIAM R

LSP No: 7432
LSP Name: FELTEN, DANIEL W

LSP No: 4409
LSP Name: ZIGMONT, JAMES H

RAO Detail

Class: C1
Method: 3
GW Category: 1
Soil Category: 3
RAO Description: A temporary cleanup. Although the site does not present a 'substantial hazard', it has not reached a level of no significant risk. The site must be evaluated every five years to determine whether a Class A or Class B RAO is possible. All sites are expected eventually to receive a Class A or B RAO.

64	10 of 10	ESE	0.17 / 884.40	136.09 / -58	MOBIL STATION 432 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0002423 Compliance Date: 9/13/2006 Compliance Status: RAO Compl Status Desc: Response Action Outcome Notification Date: 2/12/1990 Source: UST, USTOTHER Reporting Category: 120 DY Site (EEA Data): MOBIL STATION Rel Add(EEA Data): 432 BOSTON POST RD Town (EEA Data): SUDBURY Phase Desc: RAO Class Desc:	Phase: PHASE V RAO Class: C1 Chemical Type: Oil and Hazardous Material Location Type: GASSTATION Site Name (BWSC): MOBIL STATION Address (BWSC): 432 BOSTON POST RD Town (BWSC): SUDBURY Zip Code (BWSC): 01776-0000 OFC Town (BWSC): SUDBURY
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Operation, Maintenance and/or Monitoring
 Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002423>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002423>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: BENZO[B]FLUORANTHENE
Amount: 18.3
Units: UG/L

Chemical: GASOLINE
Amount:
Units:

Chemical: 2-METHYLNAPHTHALENE
Amount: 27.9
Units: UG/L

Action Information (BWSC)

Status: IMRCD **F Name:**
Date: 30-Jan-2004 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 03-Feb-2003 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: SNAUDI **F Name:**
Date: 01-Aug-2001 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level II - Audit Inspection
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: CSRCVD **F Name:**
Date: 30-Jan-2004 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: PLANWR **F Name:**
Date: 26-Nov-2003 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAM					
Action Description:					Release Abatement Measure	
Status Description:					Written Plan Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	11-Mar-2015				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Mar-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	14-Mar-2016				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	09-Sep-2013				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	16-Sep-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	NAFNVD				F Name:	
Date:	25-Sep-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	11-Mar-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	13-Mar-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	09-Sep-2008				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	09-Sep-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	15-Sep-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT **F Name:**
Date: 10-Mar-2017 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT **F Name:**
Date: 22-Mar-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT **F Name:**
Date: 14-Sep-2012 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TCTRNS **F Name:**
Date: 12-Feb-1990 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: CSRCVD **F Name:**
Date: 31-Aug-1999 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: CSRCVD **F Name:**
Date: 16-Feb-2016 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 14-Mar-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 15-Mar-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: IMRCD **F Name:**
Date: 29-Aug-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT **F Name:**
Date: 14-Mar-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT **F Name:**
Date: 29-Aug-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: REVRCD **F Name:**
Date: 17-Nov-1998 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Revised Statement or Transmittal Received
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NON				F Name:	
Date:	16-Aug-2004				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	12-Jul-2001				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TERMIN				F Name:	
Date:	02-Nov-2001				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Action Status or AUL Terminated					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PLANWR				F Name:	
Date:	02-Oct-1998				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	STRCVD				F Name:	
Date:	13-Aug-2014				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSAUD				F Name:	
Date:	08-Oct-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	22-Mar-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Sep-2011				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Sep-2017				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Sep-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RAORCD				F Name:	
Date:	13-Sep-2006				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	13-Mar-2014				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	15-Sep-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREFF				F Name:	
Date:	17-Sep-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREXT				F Name:	
Date:	22-May-2002				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Extension Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREXT				F Name:	
Date:	05-Aug-2004				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Extension Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	BWSC05				F Name:	
Date:	22-Jul-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	IMRCD				F Name:	
Date:	11-Feb-2002				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	17-Jul-2002				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	29-Jul-2005				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANMD				F Name:	
Date:	29-Jul-2005				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PLANWR				F Name:	
Date:	16-Oct-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	STRCVD				F Name:	
Date:	13-Feb-2015				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	STRCVD				F Name:	
Date:	14-Feb-2014				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	15-Mar-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	31-Aug-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	15-Sep-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	17-Sep-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LEGNOT				F Name:	
Date:	17-Jun-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Legal Notice Published					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
						achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	LNKVMP				F Name:	
Date:	20-Sep-2006				L Name:	
Action:	TCLASS					
Action Description:						Tier Classification
Status Description:						RTN Linked to TCLASS Via Minor Permit Modification (retired)
RAO Class:						C1
RAO Class Desc:						Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	PEREFF				F Name:	
Date:	08-Apr-1999				L Name:	
Action:	TCLASS					
Action Description:						Tier Classification
Status Description:						Permit Effective Date (retired)
RAO Class:						C1
RAO Class Desc:						Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	PEREFF				F Name:	
Date:	22-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:						Tier Classification
Status Description:						Permit Effective Date (retired)
RAO Class:						C1
RAO Class Desc:						Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	PEREFF				F Name:	
Date:	17-Aug-2000				L Name:	
Action:	TCLASS					
Action Description:						Tier Classification
Status Description:						Permit Effective Date (retired)
RAO Class:						C1
RAO Class Desc:						Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS20					
Action Description:						
Status Description:						
RAO Class:						C1
RAO Class Desc:						Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible
Status:	IMRCD				F Name:	
Date:	31-Jul-2003				L Name:	
Action:	PHASEV					
Action Description:						Phase 5
Status Description:						Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class:						C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	22-Dec-2000				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	STRCVD				F Name:	
Date:	27-Jan-2006				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	13-Mar-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	16-Mar-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	14-Sep-2012				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	20-Sep-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RMRINT				F Name:	
Date:	20-Mar-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RMR Interim Report Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RECPT				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NAFVIO				F Name:	
Date:	25-Sep-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	APPROV				F Name:	
Date:					L Name:	
Action:	BWS10					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	21-Jan-2005				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	30-Jul-2004				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	STRCVD				F Name:	
Date:	10-Aug-2015				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	10-Mar-2017				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	13-Mar-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	07-Sep-2010				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	11-Mar-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	RMRINT				F Name:	
Date:	16-Mar-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	15-Sep-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSEVAL				F Name:	
Date:	14-Sep-2011				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	LNKVIC				F Name:	
Date:	21-Jan-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	RTN Linked to TCLASS Via IRA Completion Statement					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	PEREXT				F Name:	
Date:	18-Apr-2000				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TIER1B				F Name:	
Date:	17-Mar-1994				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1B Classification (retired)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	INTLET				F Name:	
Date:	21-Apr-1999				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ISSUED				F Name:	
Date:	12-Feb-1990				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	16-Jan-2001				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	20-Mar-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	14-Mar-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	RMRINT				F Name:	
Date:	16-Sep-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RMR Interim Report Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RMRINT
Date: 20-Sep-2016
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RMR Interim Report Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: REPORT
Date: 11-Apr-2006
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: LNKVIC
Date: 09-Feb-2006
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via IRA Completion Statement
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: LNKVTC
Date: 20-Sep-2006
Action: TCLASS
Action Description: Tier Classification
Status Description: RTN Linked to TCLASS Via Tier Classification Submittal
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Release (BWSC) Detail

Prim ID: 3-0002423
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 13-Sep-2006
OFC Notification: 12-Feb-1990
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Category: 120 DY
Phase: PHASE V
RAO Class: C1
OHM: Oil and Hazardous Material

Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
65	1 of 1	ESE	0.17 / 888.07	136.05 / -58	EXXONMOBIL OIL CORPORATION 01CY7 431 RTE 20 SUDBURY MA 01776	RCRA CESQG

EPA Handler ID: MAD985296243
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: DALE VIATOR
Contact Address: CORP-GP2-911 , 16825 NORTHCHASE DRIVE, ROOM 9 , HOUSTON , TX, 77060-0000 , US
Contact Phone No and Ext: 281-654-8470
Contact Email: DALE.VIATOR@EXXONMOBIL.COM
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20050616

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19910412
Handler Name: EXXONMOBIL OIL CORPORATION 01CY7
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19920327
Handler Name: MOBIL OIL CORP.
Federal Waste Generator Code: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19940331
Handler Name: MOBIL OIL COORPORATION
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20050206
Handler Name: EXXONMOBIL OIL CORPORATION 01CY7
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20050616
Handler Name: EXXONMOBIL OIL CORPORATION 01CY7
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Hazardous Waste Code: MA98
Waste Code Description: OFF SPECIFICATION USED OIL FUEL THAT IS SHIPPED USING A HW MANIFEST

Hazardous Waste Code: MA99
Waste Code Description: NON-HAZARDOUS WASTE TO BE USED ONLY FOR NON-HW SHIPPED USING HW MANIFEST

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Private
Street No:
Street 1: CORP-GP2-911

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Name:	EXXONMOBIL OIL CORPORATION	Street 2:	16825 NORTHCHASE DRIVE, ROOM 9	
Date Became Current:	19991201	City:	HOUSTON	
Date Ended Current:		State:	TX	
Phone:		Country:	US	
Source Type:	Notification	Zip Code:	77060-0000	
Owner/Operator Ind:	Current Owner	Street No:		
Type:	Private	Street 1:	CORP-GP2-911	
Name:	EXXONMOBIL OIL CORPORATION	Street 2:	16825 NORTHCHASE DRIVE, ROOM 9	
Date Became Current:	19991201	City:	HOUSTON	
Date Ended Current:		State:	TX	
Phone:		Country:	US	
Source Type:	Notification	Zip Code:	77060-0000	
Owner/Operator Ind:	Current Operator	Street No:		
Type:	Private	Street 1:	PO BOX 142667	
Name:	MOBIL OIL CORP CY7	Street 2:		
Date Became Current:	19910412	City:	AUSTIN	
Date Ended Current:	19970515	State:	TX	
Phone:		Country:	US	
Source Type:	Notification	Zip Code:	78714-2667	
Owner/Operator Ind:	Current Owner	Street No:		
Type:	Private	Street 1:	PO BOX 142667	
Name:	MOBIL OIL CORP	Street 2:		
Date Became Current:	20041016	City:	AUSTIN	
Date Ended Current:		State:	TX	
Phone:		Country:	US	
Source Type:	Notification	Zip Code:	78714-2667	

Historical Handler Details

Receive Dt:	20050206
Generator Code Description:	Large Quantity Generator
Handler Name:	EXXONMOBIL OIL CORPORATION 01CY7
Receive Dt:	19940331
Generator Code Description:	Large Quantity Generator
Handler Name:	MOBIL OIL COORPORATION
Receive Dt:	19920327
Generator Code Description:	Large Quantity Generator
Handler Name:	MOBIL OIL CORP.
Receive Dt:	19910412
Generator Code Description:	Not a Generator, Verified
Handler Name:	EXXONMOBIL OIL CORPORATION 01CY7

66

1 of 5

ESE

0.01 /
57.56

131.81 /
-62

STEVES AUTO BODY
40 STATION RD
SUDBURY MA 01776

RCRA
NON GEN

EPA Handler ID:	MAD019658582
Gen Status Universe:	No Report
Contact Name:	STEVE BANKUTI
Contact Address:	40 STATION RD , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext:	617-555-1212
Contact Email:	
Contact Country:	US
County Name:	MIDDLESEX
EPA Region:	01
Land Type:	Private
Receive Date:	19860609

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860609
Handler Name: STEVES AUTO BODY
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 40 STATION RD
Name: STEVES AUTO BODY	Street 2:
Date Became Current: 19911208	City: SUDBURY
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01776

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 40 STATION RD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Name:	STEVE BANKUTI	Street 2:				
Date Became Current:	20041016	City:	SUDBURY			
Date Ended Current:		State:	MA			
Phone:		Country:	US			
Source Type:	Notification	Zip Code:	01776			

66	2 of 5	ESE	0.01 / 57.56	131.81 / -62	STATION ROAD AUTO BODY & GARAGE INC 40 STATION RD SUDBURY MA 01776	RCRA CESQG
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EPA Handler ID: MAD982190373
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: GEORGE SHERMAN
Contact Address: 40 STATION RD , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-6914
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19870130

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 340(1)(j)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20001023
Scheduled Compliance Date: 20010128
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001228
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20001023
Scheduled Compliance Date: 20010128
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001228
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 685(1)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20001023
Scheduled Compliance Date: 20010128
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001228
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 353(9)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20001023
Scheduled Compliance Date: 20010128
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001228
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20001023
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Return to Compliance Date:		20010530				
Evaluation Agency:		State				
Evaluation Start Date:		20001023				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		State Statute or Regulation				
Return to Compliance Date:		20010530				
Evaluation Agency:		State				
Evaluation Start Date:		20001023				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20010530				
Evaluation Agency:		State				

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19870130
Handler Name:	STATION ROAD AUTO BODY & GARAGE INC
Federal Waste Generator Code:	3
Generator Code Description:	Very Small Quantity Generator
Source Type:	Notification

Waste Code Details

Hazardous Waste Code:	D001
Waste Code Description:	IGNITABLE WASTE
Hazardous Waste Code:	F003
Waste Code Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Hazardous Waste Code:	F005
Waste Code Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	40 STATION RD
Name:	STATION ROAD AUTO BODY & GARAG	Street 2:	
Date Became Current:	19911208	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	40 STATION RD
Name:	STATION RD AUTO BODY & GARAGE INC	Street 2:	
Date Became Current:	20041016	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

66	3 of 5	ESE	0.01 / 57.56	131.81 / -62	STATION ROAD AUTO BODY & GARAG 40 STATION RD SUDBURY MA 01776	FINDS/FRS
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Registry ID: 110009590978
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 11-OCT-11
Interest Types: CESQG, STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173652011042
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.36276
Longitude: -71.42027
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110009590978
Program Acronyms:

MA-EPICS:35843, RCRAINFO:MAD982190373

66	4 of 5	ESE	0.01 / 57.56	131.81 / -62	STEVES AUTO BODY 40 STATION RD SUDBURY MA 01776	FINDS/FRS
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Registry ID: 110003429013
FIPS Code: 25017
HUC Code: 01070005

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		01-MAR-00				
Update Date:		29-SEP-11				
Interest Types:		STATE MASTER, UNSPECIFIED UNIVERSE				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:		FRS-GEOCODE				
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:		05				
Census Block Code:		250173652011042				
EPA Region Code:		01				
County Name:		MIDDLESEX				
US/Mexico Border Ind:						
Latitude:		42.36276				
Longitude:		-71.42027				
Reference Point:		CENTER OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		30				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110003429013				
Program Acronyms:						
MA-EPICS:28450, RCRAINFO:MAD019658582						

66	5 of 5	ESE	0.01 / 57.56	131.81 / -62	STATION ROAD AUTO BODY & GARAGE INC 40 STATION RD SUDBURY MA 01776	GEN
EPA ID No:		MAD982190373				
2nd Name:						
Phone:		978-443-6914				

67	1 of 1	ESE	0.16 / 834.61	135.88 / -58	CHISWICK PROPERTIES FMR BOSTON POST ROAD UNION ST SUDBURY MA	RELEASE
RTN:		3-0000020				
Compliance Date:		7/29/1996				
Compliance Status:		RAO				
Compl Status Desc:		Response Action Outcome				
Notification Date:		11/3/1986				
Source:		UNCONTAIN, UNKNOWN				
Reporting Category:		NONE				
Site (EEA Data):		CHISWICK PROPERTIES FMR				
Rel Add(EEA Data):		BOSTON POST ROAD UNION ST				
Town (EEA Data):		SUDBURY				
Phase Desc:		Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Info URL:		https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0000020				
Docs URL:		https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0000020				
Report Source:		Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Chemical Information (BWSC)

Chemical: VOCS
Amount:
Units:

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount:
Units:

Action Information (BWSC)

Status: PEREFF **F Name:**
Date: 20-Jul-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: TSEVAL **F Name:**
Date: 09-Aug-2019 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Periodic Review Opinion Evaluating Temporary Solution
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: FLDRAN **F Name:**
Date: 18-Jun-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RECPT **F Name:**
Date: 29-Mar-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: ISSUED **F Name:**
Date: 03-Nov-1986 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: C1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NORA				F Name:	
Date:	15-Jul-1986				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	ACTAUD				F Name:	
Date:	23-Jul-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TCTRNS				F Name:	
Date:	03-Nov-1986				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	25-Aug-2014				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSEVAL				F Name:	
Date:	07-May-2015				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	29-Jul-1996				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSEVAL				F Name:	
Date:	02-Aug-2001				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TIER1B				F Name:	
Date:	20-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1B Classification (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NAFNVD				F Name:	
Date:	23-Jul-2019				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	03-Nov-2006				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	BWSC05				F Name:	
Date:	20-Jul-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NOA				F Name:	
Date:	06-Jun-2019				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: AUDCOM
Action Description:
Status Description:
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Status: RAORCD **F Name:**
Date: 29-Jul-1996 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE IV
Current St Desc: Response Action Outcome **RAO Class:** C1
Current Date: 29-Jul-1996 **OHM:** Oil and Hazardous Material
OFC Notification: 03-Nov-1986
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible

Other Rela:

68	1 of 2	ESE	0.15 / 777.52	136.02 / -58	SUDBURY CLEANERS 428 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0010592 **Phase:** PHASE V
Compliance Date: 7/9/2004 **RAO Class:**
Compliance Status: REMOPS **Chemical Type:** Hazardous Material
Compl Status Desc: Remedy Operation Status **Location Type:** COMMERCIAL
Notification Date: 3/30/1994 **Site Name (BWSC):** SUDBURY CLEANERS
Source: DUMPSTER **Address (BWSC):** 428 BOSTON POST RD
Reporting Category: 120 DY **Town (BWSC):** SUDBURY
Site (EEA Data): SUDBURY CLEANERS **Zip Code (BWSC):** 01776
Rel Add(EEA Data): 428 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0010592>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0010592>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: TCE
Amount: 524
Units: PPB

Chemical: PCE
Amount: 5000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Units:		PPB				
Chemical:		1,1,2,2-TETRACHLOROETHANE				
Amount:		7.76				
Units:		PPB				
Chemical:		METHANE, TRIBROMO-				
Amount:		5.57				
Units:		PPB				
Chemical:		VINYL CHLORIDE				
Amount:		459				
Units:		PPB				
Chemical:		ETHENE, TETRACHLORO-				
Amount:		14				
Units:		PPM				
Chemical:		UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL				
Amount:						
Units:						
Chemical:		TRANS-1,2-DICHLOROETHENE				
Amount:		3125				
Units:		PPB				

Action Information (BWSC)

Status:	ACOP	F Name:
Date:	10-Mar-2003	L Name:
Action:	C&E	
Action Description:		
Status Description:		
RAO Class:		
RAO Class Desc:		
Status:	IMRCD	F Name:
Date:	26-Jan-2005	L Name:
Action:	PHASEV	
Action Description:	Phase 5	
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:		
RAO Class Desc:		
Status:	ROSSTR	F Name:
Date:	26-Apr-2007	L Name:
Action:	PHASEV	
Action Description:	Phase 5	
Status Description:	Remedy Operation Status Report Received	
RAO Class:		
RAO Class Desc:		
Status:	APPROV	F Name:
Date:		L Name:
Action:	BWS20	
Action Description:		
Status Description:		
RAO Class:		
RAO Class Desc:		
Status:	RMRINT	F Name:
Date:	23-Oct-2008	L Name:
Action:	PHASEV	
Action Description:	Phase 5	
Status Description:	RMR Interim Report Received	
RAO Class:		
RAO Class Desc:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ROSSTR				F Name:	
Date:	24-Apr-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	20-Nov-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	23-Oct-2008				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	12-Jan-1995				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	10-Jul-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	IMRCD				F Name:	
Date:	11-Aug-2005				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:						
RAO Class Desc:						
Status:	LEGNOT				F Name:	
Date:	04-Feb-2002				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Legal Notice Published					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF				F Name:	
Date:	26-Jun-2002				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	ACOP				F Name:	
Date:	19-Mar-2003				L Name:	
Action:	C&E					
Action Description:						
Status Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Status:	LESS				F Name:	
Date:	17-Feb-1994				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Release or TOR Less than Reporting Requirement					
RAO Class:						
RAO Class Desc:						
Status:	REMOPS				F Name:	
Date:	09-Jul-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status (ROS) Submittal Received					
RAO Class:						
RAO Class Desc:						
Status:	ROSSTR				F Name:	
Date:	19-Dec-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Remedy Operation Status Report Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	20-Nov-2006				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	19-Dec-2007				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	09-Jul-2004				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	12-Jan-1995				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	TIERII				F Name:	
Date:	10-Jul-1995				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:						
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	02-Mar-1995				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	INTLET			F Name:		
Date:	30-Mar-1994			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NON			F Name:		
Date:	25-Jul-1995			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	STRCVD			F Name:		
Date:	26-Apr-2007			L Name:		
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD			F Name:		
Date:	01-Aug-2003			L Name:		
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD			F Name:		
Date:	30-Sep-2003			L Name:		
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	PEREFF			F Name:		
Date:	29-Jan-1996			L Name:		
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Effective Date (retired)					
RAO Class:						
RAO Class Desc:						
Status:	PEREXT			F Name:		
Date:	02-Jan-2002			L Name:		
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Permit Extension Received (retired)					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED			F Name:		
Date:	30-Mar-1994			L Name:		
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						

Status: RMRINT **F Name:**
Date: 19-Dec-2007 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: ROSSTR **F Name:**
Date: 23-Oct-2008 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class:
RAO Class Desc:

Status: TIER1C **F Name:**
Date: 29-Jan-1996 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1C Classification (retired)
RAO Class:
RAO Class Desc:

Status: NAFNON **F Name:**
Date: 19-Nov-2001 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 10-Jul-1995 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: RMRINT **F Name:**
Date: 20-Nov-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 24-Apr-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: PLANWR **F Name:**
Date: 19-Nov-2003 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 10-May-1995 **L Name:**
Action: RNF
Action Description: Release Notification Form Received

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: DEPDIS **F Name:**
Date: 29-Jan-1996 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: DEP Disagrees with Classification
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: REMOPS **Phase:** PHASE V
Current St Desc: Remedy Operation Status **RAO Class:**
Current Date: 09-Jul-2004 **OHM:** Hazardous Material
OFC Notification: 30-Mar-1994
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc:
Other Rela:

68	2 of 2	ESE	0.15 / 777.52	136.02 / -58	SUDBURY CLEANERS 428 BOSTON POST RD SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD091499897
Gen Status Universe: No Report
Contact Name: LLOYD CLARK
Contact Address: 428 BOSTON POST RD , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-2371
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20020630

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sequence No: 1
Receive Date: 19830117
Handler Name: SUDBURY CLEANERS
Source Type: Notification
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20020630
Handler Name: SUDBURY CLEANERS
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: F002
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1: 428 BOSTON POST RD
Name: SUDBURY CLEANERS	Street 2:
Date Became Current: 19780301	City: SUDBURY
Date Ended Current: 20011221	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01776

Owner/Operator Ind: Current Operator	Street No:
Type: Private	Street 1:
Name: SUDBURY CLEANERS	Street 2:
Date Became Current: 19780301	City:
Date Ended Current: 20011221	State:
Phone:	Country:
Source Type: Notification	Zip Code:

Historical Handler Details

Receive Dt: 19830117
Generator Code Description: Small Quantity Generator
Handler Name: SUDBURY CLEANERS

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EPA Handler ID: MAD980906911
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: RICHARD HODGSON
Contact Address: 430 BOSTON POST RD , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-6331
Contact Email:
Contact Country: US
County Name: MIDDLESEX

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
EPA Region:		01				
Land Type:		Private				
Receive Date:		20010927				

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 340(1)(k)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20020913
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(j)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20031107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 331(1)
Violation Short Description: Generators - Manifest
Violation Type: 262.B
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Return to Compliance: Observed
Actual Return to Compl: 20020913
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20031107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(b)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20020913
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Details

Citation: SR - 685(1)
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20031107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 253(5)(b)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20020913
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 686
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20031107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:

Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(1)(f)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 20010905
 Scheduled Compliance Date: 20011224
 Return to Compliance: Observed
 Actual Return to Compl: 20031107
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 20011123
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 351(9)(c)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 20010905
 Scheduled Compliance Date: 20011224
 Return to Compliance: Observed
 Actual Return to Compl: 20020913
 Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
 Enforcement Type Description: WRITTEN INFORMAL
 Enforcement Action Date: 20011123
 Enf Disposition Status:
 Disposition Status Date:
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Violation Details

Citation: SR - 340(1)(k)
 Violation Short Description: State Statute or Regulation
 Violation Type: XXS
 Violation Determined Date: 20010905
 Scheduled Compliance Date: 20011224
 Return to Compliance: Observed
 Actual Return to Compl: 20031107
 Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20010905
Scheduled Compliance Date: 20011224
Return to Compliance: Observed
Actual Return to Compl: 20031107
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011123
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20031107
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20020913
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20020913
Evaluation Agency: State

Evaluation Start Date: 20020913
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20031107
Evaluation Agency: State

Evaluation Start Date: 20020913
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20020913
Evaluation Agency: State

Evaluation Start Date: 20020913
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description: Generators - General

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Return to Compliance Date:		20031107				
Evaluation Agency:		State				
Evaluation Start Date:		20020913				
Evaluation Type Description:		COMPLIANCE SCHEDULE EVALUATION				
Violation Short Description:		Generators - Manifest				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20020913				
Evaluation Type Description:		COMPLIANCE SCHEDULE EVALUATION				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20020913				
Evaluation Type Description:		COMPLIANCE SCHEDULE EVALUATION				
Violation Short Description:		Generators - Pre-transport				
Return to Compliance Date:		20031107				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - Pre-transport				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20031107				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		State Statute or Regulation				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - General				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - Pre-transport				
Return to Compliance Date:		20031107				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		Generators - Manifest				
Return to Compliance Date:		20020913				
Evaluation Agency:		State				
Evaluation Start Date:		20010905				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		State Statute or Regulation				
Return to Compliance Date:		20031107				
Evaluation Agency:		State				
<u>Handler Summary</u>						
Importer Activity:		No				
Mixed Waste Generator:		No				
Transporter Activity:		No				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19840306
 Handler Name: COLONIAL AUTO OF SUDBURY
 Federal Waste Generator Code: 3
 Generator Code Description: Very Small Quantity Generator
 Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 20010927
 Handler Name: COLONIAL AUTO OF SUDBURY
 Federal Waste Generator Code: 3
 Generator Code Description: Very Small Quantity Generator
 Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Operator
 Type: Private
 Name: COLONIAL AUTO OF SUDBURY
 Date Became Current: 19911208
 Date Ended Current:
 Phone:
 Source Type: Notification

Street No:
 Street 1:
 Street 2:
 City:
 State:
 Country:
 Zip Code:

Owner/Operator Ind: Current Owner
 Type: Private
 Name: HODGSON R & PARMENTER J
 Date Became Current: 19000101
 Date Ended Current:
 Phone:
 Source Type: Notification

Street No:
 Street 1: 430 BOSTON POST RD
 Street 2:
 City: SUDBURY
 State: MA
 Country: US
 Zip Code: 01776

Owner/Operator Ind: Current Operator
 Type: Private
 Name: COLONIAL AUTO OF SUDBURY
 Date Became Current: 19911208
 Date Ended Current:
 Phone:
 Source Type: Notification

Street No:
 Street 1: 430 BOSTON POST RD
 Street 2:
 City: SUDBURY
 State: MA
 Country: US
 Zip Code: 01776

Historical Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Receive Dt: 19840306
Generator Code Description: Very Small Quantity Generator
Handler Name: COLONIAL AUTO OF SUDBURY

70	1 of 3	ESE	0.14 / 745.84	136.31 / -57	NO LOCATION AID 425 BOSTON POST ROAD SUDBURY MA	RELEASE
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RTN:	3-0030065	Phase:	
Compliance Date:	8/4/2011	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, ROADWAY
Notification Date:	6/13/2011	Site Name (BWSC):	NO LOCATION AID
Source:	SADDLE, TANK, VEHICLE	Address (BWSC):	425 BOSTON POST ROAD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-3011
Rel Add(EEA Data):	425 BOSTON POST ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0030065		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0030065		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: HYDRAULIC OIL
Amount: 20
Units: GAL

Chemical: HYDRAULIC FLUID
Amount: 30
Units: GAL

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	04-Aug-2011	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	TSAUD	F Name:	
Date:	03-Apr-2012	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	13-Jun-2011	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 04-Aug-2011 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 13-Jun-2011 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 08-Jul-2011 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RECPT **F Name:**
Date: 04-Aug-2011 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 04-Aug-2011 **OHM:** Oil
OFC Notification: 13-Jun-2011
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

70	2 of 3	ESE	0.14 / 745.84	136.31 / -57	NO LOCATION AID 425 BOSTON POST ROAD SUDBURY MA 01776-3011	LST
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Site No: 3-0030065 **Initial Status Dt:** 6/13/2012
Source: SADDLE,TANK,VEHICLE **Official Notifi Dt:** 6/13/2011
Release Type: RAO **Current Date:** 8/4/2011
Chemical Type: Oil **ROA Class:** A1
Category: TWO HR **Phase:**
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Phase Desc:
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0030065>
Location Type: COMMERCIAL,ROADWAY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemicals Information

Chemical: HYDRAULIC OIL
Amount: 20
Units: GAL

Chemical: HYDRAULIC FLUID
Amount: 30
Units: GAL

Response Action

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 06/13/2011
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 04/03/2012
RAO Class: A1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Activity and Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/04/2011
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/13/2011
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 8959
LSP Name: DELTUFO, ANTHONY M

RAO Detail

Class: A1
Method: N
GW Category: N
Soil Category: 3
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

70	3 of 3	ESE	0.14 / 745.84	136.31 / -57	NO LOCATION AID 425 BOSTON POST ROAD SUDBURY MA	LUST
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RTN: 3-0030065	Phase:
Compliance Status: RAO	Location Type(s): COMMERCIAL, ROADWAY
Compl Status Desc: Response Action Outcome	Site Name (BWSC): NO LOCATION AID
Compliance Date: 8/4/2011	Address (BWSC): 425 BOSTON POST ROAD
Notification Date: 6/13/2011	Town (BWSC): SUDBURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:	A1				Zip Code (BWSC): 01776-3011	
Chemical Type:	Oil				OFC Town (BWSC): SUDBURY	
Reporting Category:	TWO HR				Source(s): SADDLE, TANK, VEHICLE	
Site Name (EEA Data Portal):	NO LOCATION AID					
Release Add (EEA Data Portal):	425 BOSTON POST ROAD					
City/Town (EEA Data Portal):	SUDBURY					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0030065					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0030065					
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	04-Aug-2011	OHM:	Oil
OFC Notification:	13-Jun-2011		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Other Rela:

Chemical Information

Chemical: HYDRAULIC FLUID
Amount: 30
Units: GAL

Chemical: HYDRAULIC OIL
Amount: 20
Units: GAL

Action Information

Date:	03-Apr-2012	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	TSAUD		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Date:	08-Jul-2011	First Name:	
Action:	NOR	Last Name:	
Action Description:	Notice of Responsibility		
Status:	ISSUED		
Status Description:	Correspondence Issued		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Date:	13-Jun-2011	First Name:	
Action:	REL	Last Name:	
Action Description:	Release Disposition		
Status:	REPORT		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Date:	13-Jun-2011	First Name:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	04-Aug-2011				First Name:	
Action:	RNFE				Last Name:	
Action Description:	Release Notification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	04-Aug-2011				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	04-Aug-2011				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

71 1 of 4 **ESE** **0.01 / 55.22** **130.90 / -63** **MOSHER AUTO BODY INC** **RCRA CESQG**
34 STATION RD
SUDBURY MA 01776

EPA Handler ID: MAD019679059
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: HERBERT SEGIEN
Contact Address: 34 STATION RD , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-9484
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20001030

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation: SR - 340(1)(j)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(i)
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 682
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 685(1)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(g)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation: SR - 340(1)(f)
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20001017
Scheduled Compliance Date: 20010106
Return to Compliance: Documented
Actual Return to Compl: 20010530
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20001206
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20180130
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20001017
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 20010530
Evaluation Agency: State

Evaluation Start Date: 20001017
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: State Statute or Regulation
Return to Compliance Date: 20010530
Evaluation Agency: State

Evaluation Start Date: 20001017
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 20010530
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19840221
Handler Name: MOSHER AUTO BODY INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20001030
Handler Name: MOSHER AUTO BODY INC
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	
Name:	MOSHER AUTO BODY INC	Street 2:	
Date Became Current:	19660301	City:	
Date Ended Current:		State:	
Phone:		Country:	
Source Type:	Notification	Zip Code:	

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	34 STATION RD
Name:	MOSHER AUTO BODY INC	Street 2:	
Date Became Current:	19660301	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Historical Handler Details

Receive Dt: 19840221
Generator Code Description: Very Small Quantity Generator
Handler Name: MOSHER AUTO BODY INC

71	2 of 4	ESE	0.01 / 55.22	130.90 / -63	MOSHER AUTO BODY INC 34 STATION RD SUDBURY MA 01776	FINDS/FRS
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Registry ID: 110003429184
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 25-SEP-12
Interest Types: CESQG, STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173652011027
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.36175
Longitude: -71.41788
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110003429184

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Program Acronyms:

MA-EPICS:133801, RCRAINFO:MAD019679059

71	3 of 4	ESE	0.01 / 55.22	130.90 / -63	MOSHER AUTO BODY INC 34 STATION RD SUDBURY MA 01776	GEN
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EPA ID No: MAD019679059
 2nd Name:
 Phone: 978-443-9484

71	4 of 4	ESE	0.01 / 55.22	130.90 / -63	MOSHER AUTOBODY 34 STATION RD SUDBURY MA 01776	FINDS/FRS
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Registry ID: 110070156293
 FIPS Code: MA017
 HUC Code: 01070005
 Site Type Name: STATIONARY
 Location Description:
 Supplemental Location:
 Create Date: 05-JAN-18
 Update Date:
 Interest Types: AIR MINOR
 SIC Codes:
 SIC Code Descriptions:
 NAICS Codes:
 NAICS Code Descriptions:
 Conveyor: FRS-GEOCODE
 Federal Facility Code:
 Federal Agency Name:
 Tribal Land Code:
 Tribal Land Name:
 Congressional Dist No: 05
 Census Block Code: 250173652011027
 EPA Region Code: 01
 County Name: MIDDLESEX COUNTY
 US/Mexico Border Ind:
 Latitude: 42.36175
 Longitude: -71.41788
 Reference Point: CENTER OF A FACILITY OR STATION
 Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
 Accuracy Value: 30
 Datum: NAD83
 Source:
 Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070156293
 Program Acronyms:

AIR:MA0000002511902890

72	1 of 3	ESE	0.13 / 709.15	136.11 / -58	SUDBURY PIZZA 426 BOSTON POST RD SUDBURY MA 01776	RCRA CESQG
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EPA Handler ID: MAR000567180
 Gen Status Universe: VSG
 Contact Name: STELLIANA EVANGELIDIS
 Contact Address: 426 , BOSTON POST RD , , SUDBURY , MA, 01776 , US
 Contact Phone No and Ext: 774-272-2865
 Contact Email: EVANGELIDIS2012@GMAIL.COM
 Contact Country: US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20190929

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190929
Handler Name: SUDBURY PIZZA
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No: 426
Type: Private	Street 1: BOSTON POST RD
Name: STELLIANA EVANGELIDIS	Street 2:
Date Became Current: 20190913	City: SUDBURY
Date Ended Current:	State: MA
Phone: 774-272-2865	Country: US
Source Type: Notification	Zip Code: 01776

Owner/Operator Ind: Current Operator	Street No: 426
Type: Private	Street 1: BOSTON POST RD
Name: STELLIANA EVANGELIDIS	Street 2:
Date Became Current: 20190913	City: SUDBURY
Date Ended Current:	State: MA
Phone: 774-272-2865	Country: US
Source Type: Notification	Zip Code: 01776

72	2 of 3	ESE	0.13 / 709.15	136.11 / -58	SUDBURY PIZZA 426 BOSTON POST ROAD	RELEASE
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SUDBURY MA

RTN:	3-0035807	Phase:	
Compliance Date:	11/8/2019	RAO Class:	PN
Compliance Status:	PSNC	Chemical Type:	Oil
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:	COMMERCIAL, PRIVPROP
Notification Date:	8/16/2019	Site Name (BWSC):	SUDBURY PIZZA
Source:	UNDER INVE	Address (BWSC):	426 BOSTON POST ROAD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	SUDBURY PIZZA	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	426 BOSTON POST ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0035807		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0035807		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	VEGETABLE OIL
Amount:	55
Units:	GAL

Action Information (BWSC)

Status:	FLDD1U	F Name:	
Date:	19-Aug-2019	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Initial Compliance Field Response - Unannounced		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	PSNRCD	F Name:	
Date:	08-Nov-2019	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Permanent Solution with No Conditions		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	RECPT	F Name:	
Date:	15-Oct-2019	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	PLANWR	F Name:	
Date:	15-Oct-2019	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Written Plan Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	ISSUED	F Name:	
Date:	04-Oct-2019	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 16-Aug-2019 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: REPORT **F Name:**
Date: 15-Oct-2019 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: APORAL **F Name:**
Date: 16-Aug-2019 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current St Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 08-Nov-2019 **OHM:** Oil
OFC Notification: 16-Aug-2019
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

72	3 of 3	ESE	0.13 / 709.15	136.11 / -58	SUDBURY PIZZA 426 BOSTON POST ROAD SUDBURY MA	LUST
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RTN: 3-0035807 **Phase:**
Compliance Status: PSNC **Location Type(s):** COMMERCIAL, PRIVPROP
Compl Status Desc: Permanent Solution with No Conditions **Site Name (BWSC):** SUDBURY PIZZA
Compliance Date: 11/8/2019 **Address (BWSC):** 426 BOSTON POST ROAD
Notification Date: 8/16/2019 **Town (BWSC):** SUDBURY
RAO Class: PN **Zip Code (BWSC):** 01776-0000
Chemical Type: Oil **OFC Town (BWSC):** SUDBURY
Reporting Category: TWO HR **Source(s):** UNDER INVE
Site Name (EEA Data Portal): SUDBURY PIZZA
Release Add (EEA Data Portal): 426 BOSTON POST ROAD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0035807>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0035807>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current Status Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 08-Nov-2019 **OHM:** Oil
OFC Notification: 16-Aug-2019
Phase Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: Permanent Solution with No Conditions
 Other Rela:

Chemical Information

Chemical: VEGETABLE OIL
 Amount: 55
 Units: GAL

Action Information

Date: 16-Aug-2019 **First Name:**
 Action: IRA **Last Name:**
 Action Description: Immediate Response Action
 Status: APORAL
 Status Description: Oral Approval of Plan or Action
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 04-Oct-2019 **First Name:**
 Action: NOR **Last Name:**
 Action Description: Notice of Responsibility
 Status: ISSUED
 Status Description: Correspondence Issued
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 19-Aug-2019 **First Name:**
 Action: RLFA **Last Name:**
 Action Description: Site Visit or Office Follow-up
 Status: FLDD1U
 Status Description: Initial Compliance Field Response - Unannounced
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 16-Aug-2019 **First Name:**
 Action: REL **Last Name:**
 Action Description: Release Disposition
 Status: REPORT
 Status Description: Reportable Release under MGL 21E
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 15-Oct-2019 **First Name:**
 Action: RNF **Last Name:**
 Action Description: Release Notification Form Received
 Status: REPORT
 Status Description: Reportable Release under MGL 21E
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 15-Oct-2019 **First Name:**
 Action: RNFE **Last Name:**
 Action Description: Release Notification
 Status: RECPT
 Status Description: Transmittal, Notice, or Notification Received
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Date: 15-Oct-2019 **First Name:**
 Action: IRA **Last Name:**
 Action Description: Immediate Response Action
 Status: PLANWR
 Status Description: Written Plan Received
 RAO Class: PN
 RAO Class Desc: Permanent Solution with No Conditions

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	08-Nov-2019				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	PSNRCD					
Status Description:	Permanent Solution with No Conditions					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					

73	1 of 2	ESE	0.12 / 631.62	135.99 / -58	SUDBURY MOBIL 423 BOSTON POST RD SUDBURY MA	HIST LUST
Spill ID:	N92-1121				Repo Units Spilled:	GALLONS
Site ID:	3-2423				Act. Qty Spilled:	1-10
Case Closed:	YES				Act. Units Spilled:	GALLONS
LUST:	---				Spill Date:	9/2/1992
Incident:	LEAK				Spill Time:	11:30PM
Other Incident:					Rport Date:	9/3/1992
Source:	U.S.T.				Rport Time:	12:30AM
Other Source:					Notifier:	DISP FALMY/FD
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	VIRGIN				First IR Form:	9/3/1992
Material:	GASOLINE				Staff Lead:	MACAULEY, J
Other Material:					Category:	
Enviro Impact:	SOIL				Days For Case:	1
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor:	NOT USED
PCB Ranges:	NONE				Referral Divisions:	SA
Reported Qty Spilled:	1-10					
CAS # for Haz Waste:						
SPL Info. 1st Entered:	4/13/1994					
SPL Info. Last Entered:	9/7/1995					

73	2 of 2	ESE	0.12 / 631.62	135.99 / -58	FORMER DBA RITE AID 10106 423 BOSTON POST RD SUDBURY MA 01776	RCRA NON GEN
EPA Handler ID:	MAC300021102					
Gen Status Universe:	No Report					
Contact Name:	KIMBERLY A DASCOLI					
Contact Address:	200 , WILMOT ROAD , , DEERFIELD , IL, 60015 , US					
Contact Phone No and Ext:	847-315-2812					
Contact Email:	KIM.DASCOLI@WALGREEN.COM					
Contact Country:	US					
County Name:	MIDDLESEX					
EPA Region:	01					
Land Type:	Private					
Receive Date:	20190624					

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 20121106
 Handler Name: RITE AID 10106
 Source Type: Notification
 Federal Waste Generator Code: 2
 Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
 Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D007
 Waste Code Description: CHROMIUM

Hazardous Waste Code: D009
 Waste Code Description: MERCURY

Hazardous Waste Code: D010
 Waste Code Description: SELENIUM

Hazardous Waste Code: D024
 Waste Code Description: M-CRESOL

Hazardous Waste Code: P001
 Waste Code Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Hazardous Waste Code: P075
 Waste Code Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 20180905
 Handler Name: DBA RITE AID 10106
 Source Type: Notification
 Federal Waste Generator Code: 3
 Generator Code Description: Very Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
 Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D004
 Waste Code Description: ARSENIC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Hazardous Waste Code: Waste Code Description:					D005 BARIUM	
Hazardous Waste Code: Waste Code Description:					D007 CHROMIUM	
Hazardous Waste Code: Waste Code Description:					D008 LEAD	
Hazardous Waste Code: Waste Code Description:					D009 MERCURY	
Hazardous Waste Code: Waste Code Description:					D010 SELENIUM	
Hazardous Waste Code: Waste Code Description:					D011 SILVER	
Hazardous Waste Code: Waste Code Description:					D016 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)	
Hazardous Waste Code: Waste Code Description:					D018 BENZENE	
Hazardous Waste Code: Waste Code Description:					D024 M-CRESOL	
Hazardous Waste Code: Waste Code Description:					D026 CRESOL	
Hazardous Waste Code: Waste Code Description:					D028 1,2-DICHLOROETHANE	
Hazardous Waste Code: Waste Code Description:					D035 METHYL ETHYL KETONE	
Hazardous Waste Code: Waste Code Description:					MA01 WASTE OIL	
Hazardous Waste Code: Waste Code Description:					MA95 UNIVERSAL WASTE	
Hazardous Waste Code: Waste Code Description:					P001 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%	
Hazardous Waste Code: Waste Code Description:					U002 2-PROPANONE (I) (OR) ACETONE (I)	
Hazardous Waste Code: Waste Code Description:					U035 BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL	
Hazardous Waste Code: Waste Code Description:					U044 CHLOROFORM (OR) METHANE, TRICHLORO-	
Hazardous Waste Code: Waste Code Description:					U058 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE	
Hazardous Waste Code: Waste Code Description:					U072 BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE	
Hazardous Waste Code: Waste Code Description:					U129 CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE	
Hazardous Waste Code:					U150	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Waste Code Description:		L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN				
Hazardous Waste Code:		U154				
Waste Code Description:		METHANOL (I) (OR) METHYL ALCOHOL (I)				
Hazardous Waste Code:		U188				
Waste Code Description:		PHENOL				
Hazardous Waste Code:		U200				
Waste Code Description:		RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL) OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-				
Hazardous Waste Code:		U201				
Waste Code Description:		1,3-BENZENEDIOL (OR) RESORCINOL				
Hazardous Waste Code:		U279				
Waste Code Description:		CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE				

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 20190624
Handler Name: FORMER DBA RITE AID 10106
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	637
Type:	Private	Street 1:	WASHINGTON ST, STE 200
Name:	SUDBURY CROSSING LIMITED PARTNERSHIP	Street 2:	
Date Became Current:	20010403	City:	BROOKLINE
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	02446
Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	30 HUNTER LANE
Name:	SUDBURY CROSSING LIMITED PARTNERSHIP	Street 2:	ATTN: ENVIRONMENTAL HEALTH & S
Date Became Current:	20001127	City:	CAMP HILL
Date Ended Current:		State:	PA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	17011-0000
Owner/Operator Ind:	Current Operator	Street No:	300
Type:	Private	Street 1:	WILMOT ROAD MS #3301
Name:	WALGREEN EASTERN CO.	Street 2:	
Date Became Current:	20180124	City:	DEERFIELD
Date Ended Current:		State:	IL
Phone:		Country:	US
Source Type:	Notification	Zip Code:	60015
Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	30 HUNTER LANE
Name:	MAXI DRUG INC	Street 2:	ATTN: ENVIRONMENTAL HEALTH & S
Date Became Current:	20070815	City:	CAMP HILL
Date Ended Current:		State:	PA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	17011-0000

Historical Handler Details

Receive Dt: 20180905

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Generator Code Description:		Very Small Quantity Generator				
Handler Name:		DBA RITE AID 10106				
Receive Dt:		20121106				
Generator Code Description:		Small Quantity Generator				
Handler Name:		RITE AID 10106				

[74](#) 1 of 2 **WNW** **0.57 / 3,024.48** **179.18 / -15** **FAHEY EXHIBITS BUILDING
501 GLEASONDALE RD
STOW MA** **RELEASE**

RTN: 2-0000427 **Phase:** PHASE V
Compliance Date: 6/2/1999 **RAO Class:** C1
Compliance Status: RAO **Chemical Type:** Oil and Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:** INDUSTRIAL, MANUFACT
Notification Date: 1/15/1989 **Site Name (BWSC):** FAHEY EXHIBITS BUILDING
Source: UNKNOWN **Address (BWSC):** 501 GLEASONDALE RD
Reporting Category: NONE **Town (BWSC):** STOW
Site (EEA Data): FAHEY EXHIBITS BUILDING **Zip Code (BWSC):** 01775-0000
Rel Add(EEA Data): 501 GLEASONDALE RD **OFC Town (BWSC):** STOW
Town (EEA Data): STOW
Phase Desc: Operation, Maintenance and/or Monitoring
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000427>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000427>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: VOLATILE ORGANIC CHEMICALS
Amount:
Units:

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount:
Units:

Chemical: UNKNOWN CHEMICAL OF TYPE - OIL
Amount:
Units:

Chemical: CHLORINATED SOLVENTS
Amount:
Units:

Chemical: VOCS
Amount:
Units:

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 17-Oct-1989 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: C1
RAO Class Desc: Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	IMRCD				F Name:	
Date:	22-Nov-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	CSRCVD				F Name:	
Date:	02-Jun-1999				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	21-Apr-2020				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	02-May-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	REVRCD				F Name:	
Date:	02-Jun-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSAUD				F Name:	
Date:	07-Aug-2019				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDDO				F Name:	
Date:	18-Nov-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PEREFF				F Name:	
Date:	14-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Permit Effective Date (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	17-May-2005				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	01-Dec-2003				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	AUDMOU				F Name:	
Date:	26-Jun-2018				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Record an Audit Memorandum	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	28-Mar-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FOLOFF				F Name:	
Date:	20-Dec-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RECPT				F Name:	
Date:	14-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	08-Apr-2002				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	23-May-2003				L Name:	
Action:	PHASEV					
Action Description:					Phase 5	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	04-Nov-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Post-RAO C Status Report Received (Ph V-prior to 05 only)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDRUN				F Name:	
Date:	08-Aug-2014				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NAFNON				F Name:	
Date:	26-Jun-2018				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	NON				F Name:	
Date:	09-Jul-2013				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	23-Sep-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSAUD				F Name:	
Date:	19-Nov-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	IMRCD				F Name:	
Date:	24-Sep-2002				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TCTRNS				F Name:	
Date:	15-Jan-1989				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Valid Transition Site (Retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FOLOFF				F Name:	
Date:	02-May-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	CSRCVD				F Name:	
Date:	02-Jun-1999				L Name:	
Action:	PHSIII					
Action Description:					Phase 3	
Status Description:					Completion Statement Received	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSAUD				F Name:	
Date:	01-Oct-2014				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Level I - Technical Screen Audit	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TSEVAL				F Name:	
Date:	02-May-2019				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					Periodic Review Opinion Evaluating Temporary Solution	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	FLDDO				F Name:	
Date:	14-Nov-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	FLDRAN				F Name:	
Date:	12-Jun-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Announced	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	RAORCD				F Name:	
Date:	02-Jun-1999				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	PRPMTG				F Name:	
Date:	16-Sep-2019				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	TIER1B				F Name:	
Date:	14-Jul-1994				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier 1B Classification (retired)	
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	BWSC05				F Name:	
Date:	14-Jul-1994				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible	
Status:	AFUCS				F Name:	
Date:	02-May-2019				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:					C1	
RAO Class Desc:					Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Temporary Solution where achievement of a Permanent Solution is not currently feasible						
Status:	NOA				F Name:	
Date:	25-Apr-2018				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	ISSUED				F Name:	
Date:	15-Mar-1994				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	IMRCD				F Name:	
Date:	18-May-2004				L Name:	
Action:	PHASEV					
Action Description:	Phase 5					
Status Description:	Post-RAO C Status Report Received (Ph V-prior to 05 only)					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TSEVAL				F Name:	
Date:	23-Sep-2013				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Periodic Review Opinion Evaluating Temporary Solution					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					
Status:	TCTRAN				F Name:	
Date:	03-May-2019				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier Classification Transfer					
RAO Class:	C1					
RAO Class Desc:	Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1- Temporary Solution where achievement of a Permanent Solution is not currently feasible					

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	PHASE V
Current St Desc:	Response Action Outcome	RAO Class:	C1
Current Date:	02-Jun-1999	OHM:	Oil and Hazardous Material
OFC Notification:	15-Jan-1989		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phase Desc:		Operation, Maintenance and/or Monitoring				
RAO Class Desc:		Response Action Outcomes shall apply to disposal sites where, after completion of a Phase III evaluation pursuant to 310 CMR 40.0850, a condition of No Substantial Hazard exists, and it is concluded that response actions to achieve a Permanent Solution are not currently feasible. As of June 20, 2014, all Class C-1 Response Action Outcomes submitted to the Department shall be Temporary Solutions as described in 310 CMR 40.1050(1)(e)1-Temporary Solution where achievement of a Permanent Solution is not currently feasible				
Other Rela:						

74	2 of 2	WNW	0.57 / 3,024.48	179.18 / -15	GLEASONDALE MILL 501 GLEASONDALE ROAD STOW MA	RELEASE
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RTN: 2-0021116
Compliance Date: 12/3/2019
Compliance Status: UNCLASSIFIED
Compl Status Desc: Unclassified
Notification Date: 12/3/2019
Source: UNKNOWN
Reporting Category: TWO HR
Site (EEA Data): GLEASONDALE MILL
Rel Add(EEA Data): 501 GLEASONDALE ROAD
Town (EEA Data): STOW
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0021116>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0021116>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Action Information (BWSC)

Status: REPORT
Date: 10-Feb-2020
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: ISSUED
Date: 14-Feb-2020
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: UNCLSS
Current St Desc: Unclassified
Current Date: 03-Dec-2019
OFC Notification: 03-Dec-2019
Phase Desc:
RAO Class Desc:
Other Rela:

Category: TWO HR
Phase:
RAO Class:
OHM:

75	1 of 1	W	0.88 / 4,657.14	294.55 / 101	WASTE MANAGEMENT INC 66 FORT MEADOW RD HUDSON MA	RELEASE
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RTN: 2-0011278
Compliance Date: 8/22/1996
Compliance Status: RAO
Phase:
RAO Class: A1
Chemical Type:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Compl Status Desc: Response Action Outcome
Notification Date: 6/19/1996
Source: PIPE
Reporting Category: TWO HR
Site (EEA Data): WASTE MANAGEMENT INC
Rel Add(EEA Data): 66 FORT MEADOW RD
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011278>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011278>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC OIL
Amount: 20
Units: GAL

Action Information (BWSC)

Status: REPORT
Date: 19-Jun-1996
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: ISSUED
Date: 25-Jun-1996
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 22-Aug-1996
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 22-Aug-1996
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 19-Jun-1996
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 22-Aug-1996
OFC Notification: 19-Jun-1996
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A1
OHM:

76	1 of 2	ESE	0.10 / 542.21	136.11 / -58	OLD SUDBURY POLICE STATION 415 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID: 100294068
Form Type: AQ-06
Project Type:
Owner Name: PARSONS COMMERCIAL GROUP
Owner address: 1881 WORCESTER ROAD
DLS Contractor:
DLS Contractor ID:
Site Supervisor:
Site Supervisor ID:

Project Start Dt: 09/24/2018
Project End Dt: 03/24/2019

76	2 of 2	ESE	0.10 / 542.21	136.11 / -58	415 BOSTON POST ROAD 415 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID: 100291777
Form Type: ANF-001
Project Type: Renv
Owner Name: SVN/PARSONS COMMERCIAL GROUP
Owner address: 1881 WORCESTER ROAD SUITE 200
DLS Contractor: ENVIROGREEN LLC
DLS Contractor ID: AC000749
Site Supervisor: FRANKLIN HERNANDEZ
Site Supervisor ID: AS061855

Project Start Dt: 08/16/2018
Project End Dt: 09/28/2018

77	1 of 1	ESE	0.20 / 1,042.56	138.78 / -55	TJ MAXX T0281 437 BOSTON POST RD SUDBURY MA 01776	RCRA CESQG
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EPA Handler ID: MAR000544221
Gen Status Universe: Conditionally Exempt Small Quantity Generator
Contact Name: COLLEEN CLARK
Contact Address: 300 , VALUE WAY 2CN , , MARLBOROUGH , MA, 01752 , US
Contact Phone No and Ext: 774-390-7625
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20190125

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190115
Handler Name: MARSHALLS T0281
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code: D016
Waste Code Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20190125
Handler Name: TJ MAXX T0281
Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Code: D016
Waste Code Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	770
Type:	Private	Street 1:	COCHITUATE RD
Name:	TJ MAXX LLC	Street 2:	
Date Became Current:	20000101	City:	FRAMINGHAM
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01701

Owner/Operator Ind:	Current Operator	Street No:	770
Type:	Private	Street 1:	COCHITUATE RD
Name:	MARSHALL'S LLC	Street 2:	
Date Became Current:	20000101	City:	FRAMINGHAM
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01701

Owner/Operator Ind:	Current Owner	Street No:	770
Type:	Private	Street 1:	COCHITUATE RD
Name:	MARSHALL'S LLC	Street 2:	
Date Became Current:	20000101	City:	FRAMINGHAM
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01701

Owner/Operator Ind:	Current Operator	Street No:	770
Type:	Private	Street 1:	COCHITUATE RD
Name:	TJ MAXX LLC	Street 2:	
Date Became Current:	20000101	City:	FRAMINGHAM
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01701

Historical Handler Details

Receive Dt: 20190115
Generator Code Description: Very Small Quantity Generator
Handler Name: MARSHALLS T0281

78	1 of 1	WNW	0.80 / 4,200.92	206.24 / 12	MASSACHUSETTS FIREFIGHTING ACADEMY 1 SUDBURY RD STOW MA	RELEASE
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RTN:	2-0017327	Phase:	PHASE II
Compliance Date:	5/17/2010	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	STATE
Notification Date:	11/21/2008	Site Name (BWSC):	MASSACHUSETTS FIREFIGHTING ACADEMY
Source:		Address (BWSC):	1 SUDBURY RD
Reporting Category:	120 DY	Town (BWSC):	STOW
Site (EEA Data):	MASSACHUSETTS FIREFIGHTING ACADEMY	Zip Code (BWSC):	01775-0000
Rel Add(EEA Data):	1 SUDBURY RD	OFC Town (BWSC):	STOW
Town (EEA Data):	STOW		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017327
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017327
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DDT
Amount: 9.69
Units: MG/KG

Chemical: LINDANE
Amount: 0.0156
Units: MG/KG

Chemical: ARSENIC
Amount: 22.5
Units: MG/KG

Chemical: DIELDRIN
Amount: 0.0944
Units: MG/KG

Action Information (BWSC)

Status: TIERII **F Name:**
Date: 09-Apr-2010 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: NON **F Name:**
Date: 11-Feb-2010 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 29-Jan-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 17-May-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 20-Jan-2009 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RECPT **F Name:**
Date: 09-Apr-2010 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 21-Nov-2008 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: CSRCVD **F Name:**
Date: 09-Apr-2010 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 21-Nov-2008 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** 120 DY
Current St Desc: Response Action Outcome **Phase:** PHASE II
Current Date: 17-May-2010 **RAO Class:** B1
OFC Notification: 21-Nov-2008 **OHM:** Hazardous Material
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

79	1 of 1	ESE	0.09 / 480.71	135.85 / -58	1 HR INSTANT PHOTO 410 BOSTON POST RD SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD985307750
Gen Status Universe: No Report
Contact Name: JULES FELLEMAN
Contact Address: 410 BOSTON POST RD , , SUDBURY , MA, 01776-0000 , US
Contact Phone No and Ext: 508-443-3003
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20000215

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Mixed Waste Generator:		No				
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19921028
 Handler Name: 1 HR INSTANT PHOTO
 Source Type: Notification
 Federal Waste Generator Code: 2
 Generator Code Description: Small Quantity Generator

Waste Code Details

Hazardous Waste Code: D011
 Waste Code Description: SILVER

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 20000215
 Handler Name: 1 HR INSTANT PHOTO
 Source Type: Implementer
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	410 BOSTON POST RD
Name:	1 HR INSTANT PHOTO	Street 2:	
Date Became Current:	19930922	City:	SUDBURY
Date Ended Current:	20000215	State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	410 BOSTON POST RD
Name:	1 HR INSTANT PHOTO INC	Street 2:	
Date Became Current:	20041016	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Implementer	Zip Code:	01776-0000

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	410 BOSTON POST RD
Name:	1 HR INSTANT PHOTO	Street 2:	
Date Became Current:	19920630	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Implementer	Zip Code:	01776-0000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	410 BOSTON POST RD
Name:	1 HR INSTANT PHOTO INC	Street 2:	
Date Became Current:	20041016	City:	SUDBURY
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01776

Historical Handler Details

Receive Dt:	19921028
Generator Code Description:	Small Quantity Generator
Handler Name:	1 HR INSTANT PHOTO

<u>80</u>	1 of 1	ESE	0.07 / 348.96	136.32 / -57	VACANT BUILDING 400 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID:	100137914	Project Start Dt:	11/23/2011
Form Type:	ANF-001	Project End Dt:	11/23/2011
Project Type:	Renov		
Owner Name:	GERALD CURTIN DEVELOPMENT		
Owner address:	657 MAIN STREET		
DLS Contractor:	DEC-TAM CORPORATION		
DLS Contractor ID:	AC000035		
Site Supervisor:	GEORGE A. PAGE		
Site Supervisor ID:	AS071933		

<u>81</u>	1 of 2	ESE	0.01 / 43.46	130.43 / -63	MIDDLEBORO TRAIN YARD 1 STATION RD MIDDLEBOROUGH MA	RELEASE
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RTN:	4-0022510	Phase:	
Compliance Date:	5/27/2010	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	INDUSTRIAL
Notification Date:	3/31/2010	Site Name (BWSC):	MIDDLEBORO TRAIN YARD
Source:		Address (BWSC):	1 STATION RD
Reporting Category:	TWO HR	Town (BWSC):	MIDDLEBOROUGH
Site (EEA Data):	MIDDLEBORO TRAIN YARD	Zip Code (BWSC):	
Rel Add(EEA Data):	1 STATION RD	OFC Town (BWSC):	MIDDLEBOROUGH
Town (EEA Data):	MIDDLEBOROUGH		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/4-0022510		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=4-0022510		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	LUBE OIL
Amount:	10
Units:	GAL

Action Information (BWSC)

Status:	FLDRUN	F Name:	
Date:	12-Mar-2014	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Compliance Field Response - Unannounced		
RAO Class:	A2		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 07-Apr-2010 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 31-Mar-2010 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 02-Jun-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 27-May-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 27-May-2010 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 27-May-2010 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 31-Mar-2010 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 27-May-2010 **OHM:** Oil
OFC Notification: 31-Mar-2010
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
81	2 of 2	ESE	0.01 / 43.46	130.43 / -63	MIDDLEBORO TRAIN YARD 1 STATION RD MIDDLEBOROUGH MA	SPILLS

RTN: 4-0022510
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 5/27/2010
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: INDUSTRIAL
Category: TWO HR
Initial Status Date: 3/31/2011
Notification Date: 3/31/2010
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0022510>
Phase:
Phase Desc:
Office Town: MIDDLEBOROUGH

Actions

Action: IRA
Status: APORAL
RAO Class: A2
Date: 3/31/2010
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: TSAUD
RAO Class: A2
Date: 6/2/2010
Status Description: Level I - Technical Screen Audit

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 5/27/2010
Status Description: RAO Statement Received (retired)

Action: IRA
Status: CSRCVD
RAO Class: A2
Date: 5/27/2010
Status Description: Completion Statement Received

Action: RNFE
Status: RECPT
RAO Class: A2
Date: 5/27/2010
Status Description: Transmittal, Notice, or Notification Received

Action: RLFA
Status: FLDRUN
RAO Class: A2
Date: 3/12/2014
Status Description: Compliance Field Response - Unannounced

Action: NOR
Status: ISSUED

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
Date:		4/7/2010				
Status Description:		Correspondence Issued				
Action:		REL				
Status:		REPORT				
RAO Class:		A2				
Date:		3/31/2010				
Status Description:		Reportable Release under MGL 21E				
<u>Chemical Information</u>						
Chemical:		LUBE OIL				
Amount:		10				
Unit:		GAL				
<u>LSP Information</u>						
LSP:		6301				
Name:		CASTELLUCCIO, CHARLES M				
<u>Response Action Information</u>						
Response Action Type:		IRA Immediate Response Action				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		05/27/2010				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		TSAUD Level I - Technical Screen Audit				
Submittal Date:		06/02/2010				
RAO Class:		A2				
Activity Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		03/31/2010				
RAO Class:						
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		A2				
Method:		1				
GW Category:		N				
Soil Category:		2				
<u>Location Information</u>						
Location:		INDUSTRIAL				

[82](#)

1 of 1

ESE

0.06 /
301.33

147.03 /
-47

CHERYL SALATINO
14 MAPLE AVENUE
SUDBURY MA

ASBESTOS
PROJECT

Project ID: 100186941
Form Type: ANF-001
Project Type: Renv
Owner Name: SAME
Owner address:
DLS Contractor: DUDLEY SERVICES INC

Project Start Dt: 10/21/2013
Project End Dt: 10/26/2013

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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DLS Contractor ID: AC000112
 Site Supervisor: SAMUEL J NIGRO III
 Site Supervisor ID: AS032802

83	1 of 2	ESE	0.13 / 683.06	147.21 / -47	BEHIND MACKINNON'S LIQUOR 5 CONCORD RD SUDBURY MA	LAST
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RTN: 3-0026018
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 9/1/2006
Notification Date: 7/3/2006
RAO Class: A2
Chemical Type: Oil
Reporting Category: TWO HR
Site Name (EEA Data Portal): BEHIND MACKINNON'S LIQUOR
Release Add (EEA Data Portal): 5 CONCORD RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0026018>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0026018>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 01-Sep-2006
OFC Notification: 03-Jul-2006
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

Chemical Information

Chemical: FUEL OIL
Amount: 10
Units: GAL

Chemical: FUEL OIL #2
Amount: 10
Units: GAL

Action Information

Date: 28-Aug-2006
Action: NOR
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 01-Sep-2006
Action: RAO
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 03-Jul-2006 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 03-Jul-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 10-Aug-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORMD
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 03-Jul-2006 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 01-Sep-2006 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

83	2 of 2	ESE	0.13 / 683.06	147.21 / -47	BEHIND MACKINNON'S LIQUOR 5 CONCORD RD SUDBURY MA	RELEASE
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RTN: 3-0026018 **Phase:**
Compliance Date: 9/1/2006 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 7/3/2006 **Site Name (BWSC):** BEHIND MACKINNON'S LIQUOR
Source: AST **Address (BWSC):** 5 CONCORD RD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): BEHIND MACKINNON'S LIQUOR **Zip Code (BWSC):** 01776-2328
Rel Add(EEA Data): 5 CONCORD RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0026018>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0026018>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: FUEL OIL #2
Amount: 10
Units: GAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical:		FUEL OIL				
Amount:		10				
Units:		GAL				
<u>Action Information (BWSC)</u>						
Status:	RAORCD			F Name:		
Date:	01-Sep-2006			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT			F Name:		
Date:	03-Jul-2006			L Name:		
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORAL			F Name:		
Date:	03-Jul-2006			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT			F Name:		
Date:	01-Sep-2006			L Name:		
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORMD			F Name:		
Date:	10-Aug-2006			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED			F Name:		
Date:	28-Aug-2006			L Name:		
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF			F Name:		
Date:	03-Jul-2006			L Name:		
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Current St Desc:		Response Action Outcome		RAO Class:	A2	
Current Date:		01-Sep-2006		OHM:	Oil	
OFC Notification:		03-Jul-2006				
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Other Rela:						
84	1 of 1	WNW	0.00 / 11.90	219.40 / 26	CHICKEN COOPS 6 WILKINS ST HUDSON MA	ASBESTOS PROJECT
Project ID:	100252989			Project Start Dt:	10/31/2016	
Form Type:	ANF-001			Project End Dt:	11/05/2016	
Project Type:	Dem					
Owner Name:	DAN & CINDY MURPHY					
Owner address:	6 WILKINS ST					
DLS Contractor:	Aero Tech Environmental					
DLS Contractor ID:	AC000921					
Site Supervisor:	GREGORY W. HARDING					
Site Supervisor ID:	AS000278					
85	1 of 1	ESE	0.12 / 638.79	146.31 / -47	CITI GROUP 5-10 CONCORD RD SUDBURY MA	ASBESTOS PROJECT
Project ID:	304646			Project Start Dt:	07/10/2007	
Form Type:	AQ-06			Project End Dt:	11/30/2007	
Project Type:						
Owner Name:	SUDBURY PLAZA ASSOC					
Owner address:	5-10 CONCORD RD					
DLS Contractor:						
DLS Contractor ID:						
Site Supervisor:						
Site Supervisor ID:						
86	1 of 1	WNW	0.00 / 9.89	219.24 / 25	WOLFE RESIDENCE 159-61 FORREST ST HUDSON MA	ASBESTOS PROJECT
Project ID:	100038265			Project Start Dt:	09/12/2006	
Form Type:	ANF-001			Project End Dt:	09/13/2006	
Project Type:	Renv					
Owner Name:	JANE WOLFE					
Owner address:						
DLS Contractor:	WALSH ENVIRONMENTAL SERVICES					
DLS Contractor ID:	AC000607					
Site Supervisor:	ARTHUR H. TALBOT					
Site Supervisor ID:	AS900226					
87	1 of 2	WNW	0.00 / 9.92	217.71 / 24	RESIDENTIAL 156 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID:	100228362			Project Start Dt:	09/09/2015	
Form Type:	ANF-001			Project End Dt:	09/09/2015	
Project Type:	Renv					
Owner Name:	JOE CHANG					
Owner address:	156 FOREST AVENUE					
DLS Contractor:	A & E ENVIRONMENTAL INC					
DLS Contractor ID:	AC000326					
Site Supervisor:	PEDRO J DIPRE-ROJAS					
Site Supervisor ID:	AS901281					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
87	2 of 2	WNW	0.00 / 9.92	217.71 / 24	RESIDENTIAL 156 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT

Project ID: 100228362R1 **Project Start Dt:** 09/09/2015
Form Type: ANF-001 **Project End Dt:** 09/09/2015
Project Type: Renv
Owner Name: JOE CHANG
Owner address: 156 FOREST AVENUE
DLS Contractor: A & E ENVIRONMENTAL INC
DLS Contractor ID: AC000326
Site Supervisor: PEDRO J DIPRE-ROJAS
Site Supervisor ID: AS901281

88	1 of 1	WNW	0.02 / 127.79	220.02 / 26	457N MAIN STREET HUDSON MA	HIST LUST
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Spill ID: C88-0102 **Repo Units Spilled:** _____
Site ID: 0000 **Act. Qty Spilled:** NONE
Case Closed: YES **Act. Units Spilled:** _____
LUST: _____ **Spill Date:** _____
Incident: TANK REMOVAL **Spill Time:** _____
Other Incident: _____ **Rport Date:** _____
Source: U.S.T. **Rport Time:** _____
Other Source: _____ **Notifier:** _____
Petro/Hazardous: PETROLEUM **Notifier Phone:** _____
Virgin/Waste: VIRGIN **First IR Form:** _____
Material: GASOLINE **Staff Lead:** JOHNSTON, D
Other Material: _____ **Category:** _____
Enviro Impact: SOIL **Days For Case:** 1
Other Env. Impact: _____ **Report pre by:** _____
Contaminated Soil: _____ **Contractor:** NOT USED
PCB Ranges: _____ **Referral Divisions:** NO
Reported Qty Spilled: NONE
CAS # for Haz Waste: _____
SPL Info. 1st Entered: _____
SPL Info. Last Entered: _____

89	1 of 2	ESE	0.12 / 659.51	146.52 / -47	VERIZON MASSACHUSETTS #568506 351 BOSTON POST RD SUDBURY MA 01776	UST
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Facility ID: 10996 **Address (Map):** _____
Owner ID: 6309 **City (Map):** _____
Facility Status: CLOSED **Facility Contact:** William Irwin
Facility Name: VERIZON MASSACHUSETTS #568506 **Facility Phone:** _____
Fac Add 1: 351 BOSTON POST RD **Facility Lat:** 42.36138
Facility City: SUDBURY **Facility Long:** -71.41494
Fac Name (Map): _____
Facility Type: Utilities

Facility Information Details

Con Add 1: 2 Hampshire Street **Con Phone:** 6175129182
Con Add 2: _____ **Con Email:** b.irwin@verizon.com
Con City: Lawrence **Update Date:** 07-Aug-2007
Con State: MA **Update By:** _____
Con Zip: 01840

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Searchable UST Facility Details

Status:	CLOSED	Owner Name:	VERIZON NEW ENGLAND INC
Last Inspection Dt:		Owner Contact Name:	William Irwin
Next Insp Due Date:		Operator Name:	VERIZON NEW ENGLAND INC
Last Cert Compl Dt:		Oper Contact Name:	William Irwin
Next Cert Compl Due:			

Owner Infomation

Owner Name:	VERIZON NEW ENGLAND INC	Contact Name:	William Irwin
Owner Add 1:	2 HAMPSHIRE ST	Contact Add 1:	2 Hampshire Street
Owner Add 2:		Contact Add 2:	
Owner City Town:	LAWRENCE	Contact City Town:	Lawrence
Owner State:	MA	Contact State:	MA
Owner Zip:	01840	Contact Zip:	01840
Organization Type:	Private	Contact Phone:	6175129182
FR Type:	Commercial Insurance	Contact E Mail:	b.irwin@verizon.com
Business:	Corporation or non-profit corporation		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

89	2 of 2	ESE	0.12 / 659.51	146.52 / -47	VERIZON 351 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID:	100027630	Project Start Dt:	01/30/2006
Form Type:	ANF-001	Project End Dt:	02/01/2006
Project Type:	Rpr		
Owner Name:	VERIZON		
Owner address:	351 BOSTON POST ROAD		
DLS Contractor:	FLEET ENVIRONMENTAL SERVICES		
DLS Contractor ID:	AC000120		
Site Supervisor:	ROBERT A ARRUDA JR		
Site Supervisor ID:	AS040292		

90	1 of 2	WNW	0.06 / 320.80	219.18 / 25	MOBIL LUBE AND OIL 457 MAIN ST HUDSON MA 01749	UST
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Facility ID:	19415	Address (Map):	457 MAIN ST
Owner ID:	10328	City (Map):	HUDSON
Facility Status:	OPEN	Facility Contact:	Nidal Sarkis
Facility Name:	MOBIL LUBE AND OIL	Facility Phone:	9785625776
Fac Add 1:	457 MAIN ST	Facility Lat:	42.39377
Facility City:	HUDSON	Facility Long:	-71.54057
Fac Name (Map):	SALEM SERVICE INC DBA MOBIL LUBE & OIL		
Facility Type:	Retail Motor Vehicle Fuel Dispensing		

Facility Information Details

Con Add 1:	457 Main Street	Con Phone:	9785629577
Con Add 2:		Con Email:	service@mobillube.comcastbiz.net
Con City:	Hudson	Update Date:	18-Apr-2016
Con State:	MA	Update By:	Nidal Sarkis
Con Zip:	01749		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Searchable UST Facility Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status:	OPEN	Owner Name:	C & S TRUST LLC
Last Inspection Dt:	5/1/2019	Owner Contact Name:	Nidal Sarkis
Next Insp Due Date:	4/10/2022	Operator Name:	C & S TRUST LLC
Last Cert Compl Dt:	9/23/2020	Oper Contact Name:	Nidal Sarkis
Next Cert Compl Due:	10/10/2023		

Owner Infomation

Owner Name:	C & S TRUST LLC	Contact Name:	Nidal Sarkis
Owner Add 1:	457 MAIN ST	Contact Add 1:	457 Main Street
Owner Add 2:		Contact Add 2:	
Owner City Town:	HUDSON	Contact City Town:	Hudson
Owner State:	MA	Contact State:	MA
Owner Zip:	01749	Contact Zip:	01749
Organization Type:	Private	Contact Phone:	9785629577
FR Type:		Contact E Mail:	service@mobillube.comcastbiz.net
Business:	Limited Liability Company		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tanks Information

Tank ID:	3	Submersible Sump:	YES
Install Date:	01-Sep-1988	Submer Sump Instl:	01-Sep-1988
Status:	In Use	Turbine Sump:	YES
Status Date:		Turb Sump Sensor:	YES
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:	42.39376	Overf Prot Instled:	
Longitude:	-71.54051	Overfill Prot Type:	Ball Float
Auto Line Lk Dtect:			
Pipe Install Date:	01-Sep-1988		
Pipe Type:	Pressurized piping system with mechanical automatic line leak detection		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:			
Tank Construct:	Single-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous In-Tank Monitoring System		
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	1	Submersible Sump:	YES
Install Date:	01-Sep-1988	Submer Sump Instl:	01-Sep-1988
Status:	In Use	Turbine Sump:	YES
Status Date:		Turb Sump Sensor:	YES
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:	42.39371	Overf Prot Instled:	
Longitude:	-71.54050	Overfill Prot Type:	Ball Float
Auto Line Lk Dtect:			
Pipe Install Date:	01-Sep-1988		
Pipe Type:	Pressurized piping system with mechanical automatic line leak detection		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:			
Tank Construct:	Single-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous In-Tank Monitoring System		
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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request).

Tank ID:	2	Submersible Sump:	YES
Install Date:	01-Sep-1988	Submer Sump Instl:	01-Sep-1988
Status:	In Use	Turbine Sump:	YES
Status Date:		Turb Sump Sensor:	NO
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:	42.39375	Overf Prot Instled:	
Longitude:	-71.54056	Overfill Prot Type:	Ball Float
Auto Line Lk Dtect:			
Pipe Install Date:	01-Sep-1988		
Pipe Type:	Pressurized piping system with mechanical automatic line leak detection		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:			
Tank Construct:	Single-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous In-Tank Monitoring System		
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

MassGIS Data : MassDEP UST (as of April 2016)

Fac ID:	387686	Town:	HUDSON
UST ID:	19415	Region:	2
Root ID:	391629	Region Desc:	Central Region - Worcester
Ro Acct:	0	Point X:	0
Fac Name:	SALEM SERVICE INC DBA MOBIL LUBE & OIL	Point Y:	0
Address:	457 MAIN ST		

DEP Location Documentation (as of April 2016)

Automation Date:	06-Feb-2007	Location Type:	Center of a facility
Primary Loc Dt:		Location Method:	Interpolation - Photo
Secondary Loc Dt:		Point X:	0
Tertiary Loc Dt:		Point Y:	0
Location Base Map:	Digital orthophoto base map (DOQ)		
Location Accuracy Estimate:	Estimated horizontal accuracy is +/-16 - +/-100 feet		
Primary Location Source:	Pictometry Neighborhood Oblique		
Secondary Location Source:			
Tertiary Location Source:			

<u>90</u>	2 of 2	WNW	0.06 / 320.80	219.18 / 25	MOPBIL LUBE & OIL 457 MAIN ST HUDSON MA 01749	GEN
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EPA ID No: MV9785625776
2nd Name:
Phone: 978-562-5776

<u>91</u>	1 of 3	ESE	0.05 / 274.13	154.77 / -39	PIERCE ROSE 46 MAPLE AVENUE SUDBURY MA 017763441	CERCLIS
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Site ID:	0102793	RNPL Status Code:	N
Site EPA ID:	MA0001094572	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MIDDLESEX	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	25017	USGS Hydro Unit No.:	01070005

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB	
Region Code:	01				Site Cong. Dist. Code: 05		
Site SMSA No.:	1120				ROT Desc: Private		
Site Prim. Latitude:	+42.522200				FR NPL Update No.:		
Site Prim. Longitude:	-070.921900				RFRA Code:		
Lat Long Source:							
RNON NPL Status Desc:		Removal Only Site (No Site Assessment Work Needed)					

CERCLIS Assess History

OU ID:	00				RALT Short Name: EPA Fund		
Act Code ID:	001				Act Start Date: 3/20/1995 00:00:00		
RAT Code:	RS				Act Complete Date: 4/28/1995 00:00:00		
RAT Short Name:	RV ASSESS				AGT Order No.: 30		
RAT Name:	REMOVAL ASSESSMENT				SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:	B				SH Seq:		
RAT Level:	1				SH Start Date:		
RAT DEF OU:	00				SH Complete Date:		
RFBS Code:	V				SH Lead:		
SPA Code:	08						
RAT Def:		Collecting site characteristics to determine whether or not a removal must be performed.					
Site Desc:							
Site Alias:							

CERCLIS Assess History

OU ID:	00				RALT Short Name:		
Act Code ID:					Act Start Date:		
RAT Code:					Act Complete Date:		
RAT Short Name:					AGT Order No.: 0		
RAT Name:					SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:					SH Seq:		
RAT Level:					SH Start Date:		
RAT DEF OU:					SH Complete Date:		
RFBS Code:					SH Lead:		
SPA Code:							
RAT Def:		No description available					
Site Desc:		.					
Site Alias:		No alias data available					

CERCLIS Assess History

OU ID:	00				RALT Short Name: EPA In-House		
Act Code ID:	001				Act Start Date:		
RAT Code:	VS				Act Complete Date: 7/1/1996 00:00:00		
RAT Short Name:	ARCH SITE				AGT Order No.: 1500		
RAT Name:	ARCHIVE SITE				SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:	B				SH Seq:		
RAT Level:	1				SH Start Date:		
RAT DEF OU:	00				SH Complete Date:		
RFBS Code:					SH Lead:		
SPA Code:	13						
RAT Def:		The decision is made that no further activity is planned at the site.					
Site Desc:							
Site Alias:							

[91](#)

2 of 3

ESE

0.05 /
274.13

154.77 /
-39

PIERCE ROSE
46 MAPLE AVENUE
SUDBURY MA 17763441

CERCLIS
NFRAP

Site ID: 102793
Site EPA ID: MA0001094572

Site FIPS Code: 25017
Region Code: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site Parent ID:					Site Cong. Dist. Code: 5	
Site County Name:	MIDDLESEX				Federal Facility:	
Parent Site Name:						

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	3/20/1995
Act Code ID:	1	Act Complete Date:	4/28/1995
RAT Code:	RS	AGT Order No.:	30
RAT Short Name:	RV ASSESS	SH OU:	
RAT Name:	REMOVAL ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	V	SH Qual:	
SPA Code:	08	RAQ Act. Qual Short:	
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Collecting site characteristics to determine whether or not a removal must be performed.		
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	7/1/1996
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House	RNPL Status Code:	N
RAT Def:	The decision is made that no further activity is planned at the site.		
RNON NPL Status Desc:	Removal Only Site (No Site Assessment Work Needed)		

91	3 of 3	ESE	0.05 / 274.13	154.77 / -39	PIERCE ROSE 46 MAPLE AVENUE SUDBURY MA 01776-3441	SEMS ARCHIVE
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Site ID:	0102793	FIPS Code:	25017
EPA ID:	MA0001094572	Cong District:	05
Superfund Alt Agmt:	No	Region:	01
Federal Facility:	No	County:	MIDDLESEX
FF Docket:	N		
NPL:	Not on the NPL		
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)		

Action Information

Operable Units:	00	Start Actual:	
Action Code:	VS	Finish Actual:	06/30/1996
Action Name:	ARCH SITE	Qual:	
SEQ:	1	Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00	Start Actual:	03/19/1995
Action Code:	RS	Finish Actual:	04/27/1995
Action Name:	RV ASSESS	Qual:	
SEQ:	1	Curr Action Lead:	EPA Perf

92	1 of 1	ESE	0.05 / 253.23	161.92 / -32	PEIRCE ROSE INC 60 MAPLE AVE	RCRA NON GEN
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SUDBURY MA 01776

EPA Handler ID: MAD066616145
Gen Status Universe: No Report
Contact Name: DONALD-P PEIRCE
Contact Address: PO BOX 372 , , SUDBURY , MA, 01776 , US
Contact Phone No and Ext: 508-443-9055
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19860415

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated May, 2020.

Evaluation Details

Evaluation Start Date: 19960123
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19860415
Handler Name: PEIRCE ROSE INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: PO BOX 372
Name: PEIRCE ROSE INC	Street 2:
Date Became Current: 20041016	City: SUDBURY
Date Ended Current:	State: MA
Phone:	Country: US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Source Type:		Notification			Zip Code: 01776	
Owner/Operator Ind:		Current Operator			Street No:	
Type:		Private			Street 1: PO BOX 372	
Name:		PEIRCE ROSE INC			Street 2:	
Date Became Current:		19911208			City: SUDBURY	
Date Ended Current:		19960214			State: MA	
Phone:					Country: US	
Source Type:		Notification			Zip Code: 01776	

[93](#) 1 of 1 **W** 0.00 / 3.52 234.99 / 41 **FOREST AVENUE ELEMENTARY SCHOOL** **138 FOREST AVENUE HUDSON MA 01749-2840** **FINDS/FRS**

Registry ID: 110022207119
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description: SUBURB, LARGE: LOCATED OUTSIDE A PRINCIPAL CITY AND INSIDE AN URBANIZED AREA WITH A POPULATION OF 250,000 OR MORE.
Supplemental Location:
Create Date: 24-MAY-05
Update Date: 14-DEC-10
Interest Types: COMPLIANCE ACTIVITY
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173221003013
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.38902
Longitude: -71.54364
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110022207119
Program Acronyms:

NCDB:I01#19970929MA007 1

[94](#) 1 of 10 **W** 0.00 / 3.75 236.70 / 43 **HUDSON PUBLIC SCHOOLS** **136 FOREST AVE HUDSON MA** **ASBESTOS PROJECT**

Project ID: 100016616 **Project Start Dt:** 06/21/2005
Form Type: ANF-001 **Project End Dt:** 06/21/2005
Project Type: Rpr
Owner Name: HUDSON PUBLIC SCHOOLS
Owner address: 15 APSLEY ST
DLS Contractor: AIR SAFE INC
DLS Contractor ID: AC000464
Site Supervisor: JAIME E AMAYA
Site Supervisor ID: AS060847

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
94	2 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE. SCHOOL 136 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID:	100256524			Project Start Dt:	12/27/2016	
Form Type:	ANF-001			Project End Dt:	12/28/2016	
Project Type:	Repr					
Owner Name:	HUDSON PUBLIC SCHOOL					
Owner address:	82 LINCOLN STREET					
DLS Contractor:	ENVIRONMENTAL SOLUTIONS INC					
DLS Contractor ID:	AC000042					
Site Supervisor:	SONG KHEM					
Site Supervisor ID:	AS034675					
94	3 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE ELEMENTARY SCHOOL 136 FOREST AVE HUDSON MA	ASBESTOS PROJECT
Project ID:	778579			Project Start Dt:	07/19/2005	
Form Type:	ANF-001			Project End Dt:	07/19/2005	
Project Type:						
Owner Name:	HUDSON PUBLIC SCHOOL					
Owner address:	155 APSLEY ST					
DLS Contractor:	SCS ENVIRONMENTAL SERVICES INC					
DLS Contractor ID:	AC000125					
Site Supervisor:	HERMAN F MINAS					
Site Supervisor ID:	AS030555					
94	4 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE. SCHOOL 136 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID:	100299960			Project Start Dt:	12/27/2018	
Form Type:	ANF-001			Project End Dt:	12/28/2018	
Project Type:	Repr					
Owner Name:	HUDSON PUBLIC SCHOOL					
Owner address:	82 LINCOLN STREET					
DLS Contractor:	ENVIRONMENTAL SOLUTIONS INC					
DLS Contractor ID:	AC000042					
Site Supervisor:	SONG KHEM					
Site Supervisor ID:	AS034675					
94	5 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE. SCHOOL 136 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID:	100256524R1			Project Start Dt:	12/27/2016	
Form Type:	ANF-001			Project End Dt:	12/28/2016	
Project Type:	Repr					
Owner Name:	HUDSON PUBLIC SCHOOL					
Owner address:	82 LINCOLN STREET					
DLS Contractor:	ENVIRONMENTAL SOLUTIONS INC					
DLS Contractor ID:	AC000042					
Site Supervisor:	SONG KHEM					
Site Supervisor ID:	AS034675					
94	6 of 10	W	0.00 / 3.75	236.70 / 43	FORREST AVE SCHOOL 136 FORREST AVE HUDSON MA	ASBESTOS PROJECT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Project ID: 767441 Project Start Dt: 04/29/2003 Form Type: ANF-001 Project End Dt: 04/29/2003 Project Type: REPAIR Owner Name: FORREST AVE SCHOOL Owner address: 136 FORREST AVE DLS Contractor: AIR SAFE INC DLS Contractor ID: AC000464 Site Supervisor: JAIME E AMAYA Site Supervisor ID: AS060847						
94	7 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE ELEMENTARY SCHOOL 136 FOREST AVE HUDSON MA	ASBESTOS PROJECT
Project ID: 778590 Project Start Dt: 10/13/2005 Form Type: ANF-001 Project End Dt: 10/14/2005 Project Type: Owner Name: HUDSON PUBLIC SCHOOLS Owner address: 155 APSLEY ST DLS Contractor: SCS ENVIRONMENTAL SERVICES INC DLS Contractor ID: AC000125 Site Supervisor: HERMAN F MINAS Site Supervisor ID: AS053771						
94	8 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE. SCHOOL 136 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID: 100269912 Project Start Dt: 08/15/2017 Form Type: ANF-001 Project End Dt: 08/17/2017 Project Type: Renv Owner Name: HUDSON PUBLIC SCHOOL Owner address: 155 APSLEY STREET DLS Contractor: ENVIRONMENTAL SOLUTIONS INC DLS Contractor ID: AC000042 Site Supervisor: THOUEN KOCH Site Supervisor ID: AS061339						
94	9 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVENUE SCHOOL 136 FOREST AVE HUDSON MA	ASBESTOS PROJECT
Project ID: 100011822 Project Start Dt: 12/27/2004 Form Type: ANF-001 Project End Dt: 12/27/2004 Project Type: Rpr Owner Name: HUDSON PUBLIC SCHOOLS Owner address: 155 APSLEY STREET DLS Contractor: AIR SAFE INC DLS Contractor ID: AC000464 Site Supervisor: JAIME E AMAYA Site Supervisor ID: AS060847						
94	10 of 10	W	0.00 / 3.75	236.70 / 43	FOREST AVE. SCHOOL 136 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT
Project ID: 100299960R1 Project Start Dt: 12/27/2018 Form Type: ANF-001 Project End Dt: 12/28/2018 Project Type: Repr Owner Name: HUDSON PUBLIC SCHOOL Owner address: 82 LINCOLN STREET						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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DLS Contractor: ENVIRONMENTAL SOLUTIONS INC
DLS Contractor ID: AC000042
Site Supervisor: SONG KHEM
Site Supervisor ID: AS034675

95	1 of 2	W	0.00 / 14.33	238.63 / 45	CHILDRENS AFTER SCHOOL PROGRAMS INC 127 FOREST AVE HUDSON MA	ASBESTOS PROJECT
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Project ID: 100212014R1
Form Type: ANF-001
Project Type: Renv
Owner Name: STEVEN P. FREITAS
Owner address: 145 MAIN ST
DLS Contractor: NEW ENGLAND ASBESTOS ABATEMENT
DLS Contractor ID: AC000677
Site Supervisor: JUAN P. BRETON
Site Supervisor ID: AS000951

Project Start Dt: 12/09/2014
Project End Dt: 12/31/2014

95	2 of 2	W	0.00 / 14.33	238.63 / 45	CHILDRENS AFTER SCHOOL PROGRAMS INC 127 FOREST AVE HUDSON MA	ASBESTOS PROJECT
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Project ID: 100212014
Form Type: ANF-001
Project Type: Renv
Owner Name: STEVEN P. FREITAS
Owner address: 145 MAIN ST
DLS Contractor: NEW ENGLAND ASBESTOS ABATEMENT
DLS Contractor ID: AC000677
Site Supervisor: JUAN P. BRETON
Site Supervisor ID: AS000951

Project Start Dt: 12/09/2014
Project End Dt: 12/22/2014

96	1 of 1	W	0.12 / 615.60	235.36 / 42	MARY AKINS 39 WOODROW STREET HUDSON MA	ASBESTOS PROJECT
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Project ID: 100186748
Form Type: ANF-001
Project Type: Renv
Owner Name: MARY AKINS
Owner address: 39 WOODROW STREET
DLS Contractor: ABIDE INC
DLS Contractor ID: AC000254
Site Supervisor: FRANK TILLI
Site Supervisor ID: AS071647

Project Start Dt: 10/05/2013
Project End Dt: 10/05/2013

97	1 of 1	WNW	0.34 / 1,781.68	209.16 / 15	HUDSON TRANSFER STATION 300 COX ST HUDSON, MA 01749 MA	SWF/LF
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Old ID: TR0141.005
Old ID No: 0141.005
Status: Active
LD Closure Status: n/a
Active Year: 1996
Close Year:
Inactive Year:
Open Days: 307
RO Acct: 280116

Tons 1995:
Tons 1996:
Tons 1997:
Tons 1998: 3086
Tons 1999: 18446
Tons 2000: 44257
Tons 2001: 60701
Tons 2002: 76343
Tons 2003: 84082

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Acres:					Tons 2004:	94492
Region Code:	CE				Tons 2005:	101107
Region:	Central (Worcester).				Tons 2006:	102341
Municipality:	HUDSON				Tons 2007:	93660
County:	MIDDLESEX				Tons 2008:	81984
Site Phone:	(508)567-9694				Tons 2009:	72585
Site City State Zip:	HUDSON, MA 01749				Tons 2010:	80016
Site Location Note:					Tons 2011:	81242
Resp City State ZIP:	ASHLAND, MA 01721				Tons 2012:	70507
Resp Org Name:	B P TRUCKING INC				Tons 2013:	80538
Respons Org Type:	Private				Tons 2014:	107024
Respons Phone:					Tons 2015:	83469
Respons Str Addr1:	47-65 NICKERSON RD				TPD Max:	350
Resp Street Addr2:					Contact Phone:	(508)231-1000
Contact Org:	BP TRUCKING				Contact Address:	47-65 NICKERSON RD
Contact Person:	STEPHEN DEPAOLO, MANAGER				Cont City State Zip:	ASHLAND, MA 01721
Class Group:	Handling/Transfer					
Last Class Code:	LGTRAN					
Last Class:	Large Transfer Station					
LD W Cate Code:	n/a					
LD Waste Category:	n/a					
LF Liner Code:	n/a					
LF Liner:	n/a					
Contact Org Type:	Private					
Cont Org Ty Desc:	Private firm or other non government organization.					
Class Group Description:	A permitted operation for receiving solid waste and consolidating it for shipment to facilities, or to recycle, compost, or otherwise process solid waste materials.					
Status Description:	Currently permitted to operate.					

[98](#) 1 of 1 **W** 0.00 / 10.64 238.16 / 44 **FAMILY ORTHODONTICS OF HUDSON** **118 FOREST AVE** **HUDSON MA 017490000** **FINDS/FRS**

Registry ID: 110044757509
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description:
Supplemental Location: UNIT 202
Create Date: 09-JAN-12
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173221003007
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.38774
Longitude: -71.54886
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110044757509
Program Acronyms:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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MA-EPICS:423026

99	1 of 1	WNW	0.39 / 2,083.56	199.21 / 5	BELOW GND TANK REMOVAL 422 MAIN ST. HUDSON MA	HIST LUST
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Spill ID:	C89-0213	Repo Units Spilled:	-----
Site ID:	0000	Act. Qty Spilled:	-----
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	YES	Spill Date:	
Incident:	TANK REMOVAL	Spill Time:	08:00AM
Other Incident:		Rport Date:	
Source:	U.S.T.	Rport Time:	10:00AM
Other Source:		Notifier:	
Petro/Hazardous:	PETROLEUM	Notifier Phone:	
Virgin/Waste:	VIRGIN	First IR Form:	
Material:	OTHER MATERIAL -->	Staff Lead:	BRESNAHAN, C
Other Material:	GAS & OIL	Category:	
Enviro Impact:	SOIL	Days For Case:	1
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	NONE	Referral Divisions:	NO
Reported Qty Spilled:	-----		
CAS # for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:			

100	1 of 2	ESE	0.10 / 506.68	148.50 / -45	GASOLINE STATION FMR 225 AND 227 BOSTON POST RD SUDBURY MA	AUL
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RTN:	3-0001153	Phase:	
Compliance Status:	RAO	Location Type(s):	
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	GASOLINE STATION FMR
Compliance Date:	10/12/1994	Address (BWSC):	225 AND 227 BOSTON POST RD
Notification Date:	10/15/1988	Town (BWSC):	SUDBURY
RAO Class:	A3	Zip Code (BWSC):	01776
Chemical Type:		OFC Town (BWSC):	SUDBURY
Reporting Category:	NONE	Source(s):	
Site Name (EEA Data Portal):	GASOLINE STATION FMR		
Release Add (EEA Data Portal):	225 AND 227 BOSTON POST RD		
City/Town (EEA Data Portal):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0001153		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0001153		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A3
Current Date:	12-Oct-1994	OHM:	
OFC Notification:	15-Oct-1988		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		
Other Rela:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information

Chemical: UNKNOWN
Amount:
Units:

Action Information

Date:	04-Dec-2001	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	TSAUD		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	31-May-2002	First Name:	
Action:	AUL	Last Name:	
Action Description:	Activity and Use Limitation		
Status:	AMEND		
Status Description:	Amendment Received or Issued (LLE or HLE)		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	20-Jun-2002	First Name:	
Action:	AUL	Last Name:	
Action Description:	Activity and Use Limitation		
Status:	LEGNOT		
Status Description:	Legal Notice Published		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	14-Apr-2011	First Name:	
Action:	AUL	Last Name:	
Action Description:	Activity and Use Limitation		
Status:	SNAUDI		
Status Description:	Level II - Audit Inspection		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	15-Oct-1988	First Name:	
Action:	REL	Last Name:	
Action Description:	Release Disposition		
Status:	TCTRNS		
Status Description:	Valid Transition Site (Retired)		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	30-Oct-1997	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	REVRCD		
Status Description:	Revised Statement or Transmittal Received		
RAO Class:	A3		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Date:	23-Jul-1993	First Name:	
Action:	TREGS	Last Name:	
Action Description:			
Status:	WAVDN		
Status Description:			
RAO Class:	A3		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	02-Sep-1994				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFVIO					
Status Description:						
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	04-Jun-2002				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUCS					
Status Description:						
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	04-Dec-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	12-Oct-1994				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	14-Apr-2011				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	03-Sep-1999				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRAN					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	23-Jul-1993				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	WAVREC					
Status Description:						
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	27-Oct-1997				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		RECPT				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	20-Apr-2011				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFNVD				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	02-Sep-1994				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		INTLET				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				

[100](#) 2 of 2 **ESE** 0.10 / 506.68 148.50 / -45 **GASOLINE STATION FMR
225 AND 227 BOSTON POST RD
SUDBURY MA** **RELEASE**

RTN: 3-0001153 **Phase:**

Compliance Date: 10/12/1994 **RAO Class:** A3

Compliance Status: RAO **Chemical Type:**

Compl Status Desc: Response Action Outcome **Location Type:**

Notification Date: 10/15/1988 **Site Name (BWSC):** GASOLINE STATION FMR

Source: **Address (BWSC):** 225 AND 227 BOSTON POST RD

Reporting Category: NONE **Town (BWSC):** SUDBURY

Site (EEA Data): GASOLINE STATION FMR **Zip Code (BWSC):** 01776

Rel Add(EEA Data): 225 AND 227 BOSTON POST RD **OFC Town (BWSC):** SUDBURY

Town (EEA Data): SUDBURY

Phase Desc:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0001153>

Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0001153>

Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN

Amount:

Units:

Action Information (BWSC)

Status: TSAUD **F Name:**

Date: 04-Dec-2001 **L Name:**

Action: RAO

Action Description: Response Action Outcome -RAO

Status Description: Level I - Technical Screen Audit

RAO Class: A3

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: FLDRAN **F Name:**

Date: 14-Apr-2011 **L Name:**

Action: RLFA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Announced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	AFUCS				F Name:	
Date:	04-Jun-2002				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	NAFNVD				F Name:	
Date:	20-Apr-2011				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	NAFVIO				F Name:	
Date:	02-Sep-1994				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	LEGNOT				F Name:	
Date:	20-Jun-2002				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Legal Notice Published					
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	SNAUDI				F Name:	
Date:	14-Apr-2011				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level II - Audit Inspection					
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	INTLET				F Name:	
Date:	02-Sep-1994				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	WAVDN				F Name:	
Date:	23-Jul-1993				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	REVRCD				F Name:	
Date:	30-Oct-1997				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	WAVREC				F Name:	
Date:	23-Jul-1993				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	NAFNVD				F Name:	
Date:	04-Dec-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	RECPT				F Name:	
Date:	27-Oct-1997				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FLDRAN				F Name:	
Date:	03-Sep-1999				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	AMEND				F Name:	
Date:	31-May-2002				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Amendment Received or Issued (LLE or HLE)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	RAORCD				F Name:	
Date:	12-Oct-1994				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TCTRNS				F Name:	
Date:	15-Oct-1988				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A3
Current Date:	12-Oct-1994	OHM:	
OFC Notification:	15-Oct-1988		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Other Rela:

101	1 of 1	W	0.15 / 783.67	238.20 / 44	HUDSON LIGHT & POWER CHERRY ST. STATION HUDSON MA 01749	CERCLIS
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Site ID:	0100735	RNPL Status Code:	N
Site EPA ID:	MAD980671051	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MIDDLESEX	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	25017	USGS Hydro Unit No.:	01070005
Region Code:	01	Site Cong. Dist. Code:	03
Site SMSA No.:		ROT Desc:	Municipality
Site Prim. Latitude:	+42.39	FR NPL Update No.:	
Site Prim. Longitude:	-071.55	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	Other Cleanup Activity: State-Lead Cleanup		

CERCLIS Site Contact Name(s)

Person ID:	1270187.00
First Name:	Nancy
Last Name:	Smith
Phone No.:	6179181436
Email:	

CERCLIS Assess History

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	PA	Act Complete Date:	12/31/1985 00:00:00
RAT Short Name:	PA	AGT Order No.:	130
RAT Name:	PRELIMINARY ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAT Hist. Only Flag:					SH Code:	
RAT NSI Indicator:					SH Seq:	
RAT Level:					SH Start Date:	
RAT DEF OU:					SH Complete Date:	
RFBS Code:					SH Lead:	
SPA Code:						
RAT Def:						
Site Desc:		The MA DEP has recommended that this site be designated as a State Lead site. The MA DEP has recommended that this site be designated as a State Lead site.				

Site Alias: No alias data available

CERCLIS Assess History

OU ID:	00		RALT Short Name:	St PRP Only
Act Code ID:	001		Act Start Date:	1/10/2000 00:00:00
RAT Code:	VA		Act Complete Date:	
RAT Short Name:	OTHERCLEAN		AGT Order No.:	185
RAT Name:	OTHER CLEANUP ACTIVITY		SH OU:	
RAT Hist. Only Flag:			SH Code:	
RAT NSI Indicator:	B		SH Seq:	
RAT Level:	1		SH Start Date:	
RAT DEF OU:	00		SH Complete Date:	
RFBS Code:			SH Lead:	
SPA Code:	13			
RAT Def:		Documents that another party is managing cleanup work at a non-NPL site.		
Site Desc:				
Site Alias:				

CERCLIS Assess History

OU ID:	00		RALT Short Name:	EPA Fund
Act Code ID:	001		Act Start Date:	
RAT Code:	SI		Act Complete Date:	10/16/1990 00:00:00
RAT Short Name:	SI		AGT Order No.:	160
RAT Name:	SITE INSPECTION		SH OU:	00
RAT Hist. Only Flag:			SH Code:	SH
RAT NSI Indicator:	B		SH Seq:	001
RAT Level:	1		SH Start Date:	
RAT DEF OU:	00		SH Complete Date:	5/2/1996 00:00:00
RFBS Code:	P		SH Lead:	EPA Fund
SPA Code:	13			
RAT Def:		The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.		
Site Desc:				
Site Alias:				

CERCLIS Assess History

OU ID:	00		RALT Short Name:	EPA Fund
Act Code ID:	001		Act Start Date:	
RAT Code:	DS		Act Complete Date:	12/1/1983 00:00:00
RAT Short Name:	DISCVRY		AGT Order No.:	10
RAT Name:	DISCOVERY		SH OU:	
RAT Hist. Only Flag:			SH Code:	
RAT NSI Indicator:	B		SH Seq:	
RAT Level:	1		SH Start Date:	
RAT DEF OU:	00		SH Complete Date:	
RFBS Code:			SH Lead:	
SPA Code:	13			
RAT Def:		The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
Site Desc:				
Site Alias:				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	
RAT Code:	OO	Act Complete Date:	8/2/2001 00:00:00
RAT Short Name:	SITE REASS	AGT Order No.:	162
RAT Name:	SITE REASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	Superfund is expending extramural resources to determine/update the status of site assessment activities at a site or site conditions have changed and the Region needs to update and possibly reassess a previously made decision.		

Site Desc:
Site Alias:

102	1 of 4	WNW	0.43 / 2,251.30	199.23 / 5	POPLINS FURNITURE WAREHOUSE 420 MAIN ST HUDSON MA	LUST
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RTN:	2-0012541	Phase:	
Compliance Status:	RAO	Location Type(s):	COMMERCIAL
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	POPLINS FURNITURE WAREHOUSE
Compliance Date:	5/13/1999	Address (BWSC):	420 MAIN ST
Notification Date:	12/7/1998	Town (BWSC):	HUDSON
RAO Class:	A2	Zip Code (BWSC):	01749-0000
Chemical Type:	Oil	OFC Town (BWSC):	HUDSON
Reporting Category:	72 HR	Source(s):	UST
Site Name (EEA Data Portal):	POPLINS FURNITURE WAREHOUSE		
Release Add (EEA Data Portal):	420 MAIN ST		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012541		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012541		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	13-May-1999	OHM:	Oil
OFC Notification:	07-Dec-1998		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

Chemical Information

Chemical:	#2 FUEL OIL
Amount:	107
Units:	PPMV

Action Information

Date:	09-Dec-1998	First Name:	
Action:	RLFA	Last Name:	
Action Description:	Site Visit or Office Follow-up		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		FOLOFF				
Status Description:		Follow-up Office Response				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		12-Feb-1999		First Name:		
Action:		IRA		Last Name:		
Action Description:		Immediate Response Action				
Status:		PLANWR				
Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		07-Dec-1998		First Name:		
Action:		REL		Last Name:		
Action Description:		Release Disposition				
Status:		REPORT				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		13-May-1999		First Name:		
Action:		IRA		Last Name:		
Action Description:		Immediate Response Action				
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		09-Feb-1999		First Name:		
Action:		NOR		Last Name:		
Action Description:		Notice of Responsibility				
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		12-Feb-1999		First Name:		
Action:		RNF		Last Name:		
Action Description:		Release Notification Form Received				
Status:		REPORT				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		13-May-1999		First Name:		
Action:		RAO		Last Name:		
Action Description:		Response Action Outcome -RAO				
Status:		RAORCD				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:		07-Dec-1998		First Name:		
Action:		IRA		Last Name:		
Action Description:		Immediate Response Action				
Status:		APORAL				
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

[102](#)

2 of 4

WNW

0.43 /
2,251.30

199.23 /
5

WASTE SOLUTIONS, INC
420 MAIN ST
HUDSON MA

RELEASE

RTN: 2-0015477
Compliance Date: 1/3/2005
Compliance Status: RAO

Phase:
RAO Class: A1
Chemical Type: Oil

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Compl Status Desc:	Response Action Outcome				Location Type:	ROADWAY
Notification Date:	11/12/2004				Site Name (BWSC):	WASTE SOLUTIONS, INC
Source:	VEHICLE				Address (BWSC):	420 MAIN ST
Reporting Category:	TWO HR				Town (BWSC):	HUDSON
Site (EEA Data):	WASTE SOLUTIONS, INC				Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	420 MAIN ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015477					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015477					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical:	DIESEL FUEL
Amount:	30
Units:	GAL

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	12-Nov-2004	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	TSAUD	F Name:	
Date:	27-Jan-2005	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RAORCD	F Name:	
Date:	03-Jan-2005	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	ISSUED	F Name:	
Date:	23-Dec-2004	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	12-Nov-2004	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 03-Jan-2005 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 03-Jan-2005 **OHM:** Oil
OFC Notification: 12-Nov-2004
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

102	3 of 4	WNW	0.43 / 2,251.30	199.23 / 5	POPLINS FURNITURE WAREHOUSE 420 MAIN ST HUDSON MA 01749-0000	LST
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Site No: 2-0012541 **Initial Status Dt:** 12/7/1999
Source: UST **Official Notifi Dt:** 12/7/1998
Release Type: RAO **Current Date:** 5/13/1999
Chemical Type: Oil **ROA Class:** A2
Category: 72 HR **Phase:**
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Phase Desc:
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0012541>
Location Type: COMMERCIAL

Chemicals Information

Chemical: #2 FUEL OIL
Amount: 107
Units: PPMV

Response Action

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 02/12/1999
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 05/13/1999
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/07/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 05/13/1999
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation:

Licensed Site Professional

LSP No: 4026
LSP Name: ALVING, TODD S

RAO Detail

Class: A2
Method: 1
GW Category: 2
Soil Category: 1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

102	4 of 4	WNW	0.43 / 2,251.30	199.23 / 5	POPLINS FURNITURE WAREHOUSE 420 MAIN ST HUDSON MA	RELEASE
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RTN: 2-0012541 Compliance Date: 5/13/1999 Compliance Status: RAO Compl Status Desc: Response Action Outcome Notification Date: 12/7/1998 Source: UST Reporting Category: 72 HR Site (EEA Data): POPLINS FURNITURE WAREHOUSE Rel Add(EEA Data): 420 MAIN ST Town (EEA Data): HUDSON Phase Desc: RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background. Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012541 Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012541 Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)	Phase: RAO Class: A2 Chemical Type: Oil Location Type: COMMERCIAL Site Name (BWSC): POPLINS FURNITURE WAREHOUSE Address (BWSC): 420 MAIN ST Town (BWSC): HUDSON Zip Code (BWSC): 01749-0000 OFC Town (BWSC): HUDSON
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Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 107
Units: PPMV

Action Information (BWSC)

Status: PLANWR Date: 12-Feb-1999 Action: IRA Action Description: Immediate Response Action Status Description: Written Plan Received RAO Class: A2	F Name: L Name:
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	REPORT				F Name:	
Date:	07-Dec-1998				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	REPORT				F Name:	
Date:	12-Feb-1999				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	APORAL				F Name:	
Date:	07-Dec-1998				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	RAORCD				F Name:	
Date:	13-May-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	FOLOFF				F Name:	
Date:	09-Dec-1998				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	CSRCVD				F Name:	
Date:	13-May-1999				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Status:	ISSUED				F Name:	
Date:	09-Feb-1999				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	13-May-1999	OHM:	Oil
OFC Notification:	07-Dec-1998		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
103	1 of 1	W	0.00 / 7.55	232.45 / 39	TRACY FACILE 106 FOREST AVENUE HUDSON MA	ASBESTOS PROJECT

Project ID: 100222561 **Project Start Dt:** 06/25/2015
Form Type: ANF-001 **Project End Dt:** 06/25/2015
Project Type: Renv
Owner Name: TRACY FACILE
Owner address: 106 FOREST STREET
DLS Contractor: CLEAN AIR ENVIRONMENTAL INC
DLS Contractor ID: AC000745
Site Supervisor: PORTIRIO MARACALLO
Site Supervisor ID: AS000630

104	1 of 1	WNW	0.61 / 3,206.88	201.51 / 8	ZINA FARM 1 ZINA RD HUDSON MA	RELEASE
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RTN: 2-0016208 **Phase:**
Compliance Date: 5/2/2007 **RAO Class:**
Compliance Status: TIER1D **Chemical Type:**
Compl Status Desc: Tier 1D **Location Type:** OTHER, PRIVPROP
Notification Date: 4/25/2006 **Site Name (BWSC):** ZINA FARM
Source: DRUMS, UNKNOWN **Address (BWSC):** 1 ZINA RD
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): ZINA FARM **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 1 ZINA RD **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016208>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016208>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN CHEMICAL OF UNKNOWN TYPE
Amount: 12
Units:

Action Information (BWSC)

Status: FLDDO **F Name:**
Date: 02-May-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class:
RAO Class Desc:

Status: FOLFLD **F Name:**
Date: 11-Oct-2013 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Status: INTLET **F Name:**
Date: 26-Apr-2006 **L Name:**
Action: C&E
Action Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	01-Mar-2007				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	25-Jan-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	25-Apr-2006				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	02-Jan-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	28-May-2008				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	17-Dec-2010				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up or Other Field Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	27-Dec-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	03-May-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	31-May-2007 RLFA					L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLOFF 16-Dec-2010 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	NOIM 13-Nov-2006 C&E					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 25-Apr-2006 REL					F Name: L Name:
		Release Disposition Reportable Release under MGL 21E				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLFLD 16-Jul-2008 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up or Other Field Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FLDDO 23-Apr-2007 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FLDDO 10-Sep-2007 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FLDDO 07-Oct-2010 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Field Response - Direct Oversight				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	FOLFLD 22-Jun-2007 RLFA					F Name: L Name:
		Site Visit or Office Follow-up Follow-up or Other Field Response				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		19-Nov-2019			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		NORA			F Name:	
Date:		03-Aug-2006			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		19-Jan-2007			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up or Other Field Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		16-Apr-2008			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up or Other Field Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		30-Jan-2012			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		26-Dec-2006			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		REPORT			F Name:	
Date:		19-Mar-2009			L Name:	
Action:		REL				
Action Description:			Release Disposition			
Status Description:			Reportable Release under MGL 21E			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		24-Apr-2007			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		07-Oct-2010			L Name:	
Action:		RLFA				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	TIER1D	Phase:	
Current St Desc:	Tier 1D	RAO Class:	
Current Date:	02-May-2007	OHM:	
OFC Notification:	25-Apr-2006		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

<u>105</u>	1 of 2	ESE	0.09 / 459.18	142.38 / -51	SUDBURY GETTY 227 BOSTON POST RD SUDBURY MA 01776	UST
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Facility ID:	11002	Address (Map):	
Owner ID:	6418	City (Map):	
Facility Status:	CLOSED	Facility Contact:	
Facility Name:	SUDBURY GETTY	Facility Phone:	
Fac Add 1:	227 BOSTON POST RD	Facility Lat:	42.36073
Facility City:	SUDBURY	Facility Long:	-71.40538
Fac Name (Map):			
Facility Type:			

Facility Information Details

Con Add 1:		Con Phone:	
Con Add 2:		Con Email:	
Con City:		Update Date:	23-Jul-1993
Con State:		Update By:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	SUDBURY GASOLINE CO
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	SUDBURY GASOLINE CO
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Information

Owner Name:	SUDBURY GASOLINE CO	Contact Name:	
Owner Add 1:	124 BOYLSTON ST	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	BROOKLINE	Contact City Town:	
Owner State:	MA	Contact State:	
Owner Zip:	02445	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tanks Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tank ID:	2				Submersible Sump:	NO
Install Date:	13-Jun-1966				Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	05-May-1992				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Gasoline				Interm Sump Sensor:	NO
Capacity:	3000.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					
Tank ID:	3				Submersible Sump:	NO
Install Date:	13-Jun-1966				Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	05-May-1992				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Gasoline				Interm Sump Sensor:	NO
Capacity:	2500.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					
Tank ID:	1				Submersible Sump:	NO
Install Date:	13-Jun-1966				Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump:	NO
Status Date:	05-May-1992				Turb Sump Sensor:	NO
Use Type:					Intermediate Sump:	NO
Content:	Gasoline				Interm Sump Sensor:	NO
Capacity:	4000.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens:	NO
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
105	2 of 2	ESE	0.09 / 459.18	142.38 / -51	GASOLINE STATION FMR 225 AND 227 BOSTON POST RD SUDBURY MA 01776	SPILLS

RTN: 3-0001153
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 10/12/1994
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented
Chemical Type:
Release Type: RAO
Location Type:
Category: NONE
Initial Status Date: 10/2/1995
Notification Date: 10/15/1988
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0001153>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RLFA
Status: FLDRAN
RAO Class: A3
Date: 4/14/2011
Status Description: Compliance Field Response - Announced

Action: AUL
Status: AMEND
RAO Class: A3
Date: 5/31/2002
Status Description: Amendment Received or Issued (LLE or HLE)

Action: RAO
Status: RAORCD
RAO Class: A3
Date: 10/12/1994
Status Description: RAO Statement Received (retired)

Action: AUDCOM
Status: NAFVIO
RAO Class: A3
Date: 9/2/1994
Status Description: NAFVIO

Action: TREGS
Status: WAVREC
RAO Class: A3
Date: 7/23/1993
Status Description: WAVREC

Action: RAO
Status: TSAUD
RAO Class: A3
Date: 12/4/2001
Status Description: Level I - Technical Screen Audit

Action: AUDCOM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		NAFNVD				
RAO Class:		A3				
Date:		4/20/2011				
Status Description:		NAFNVD				
Action:		RAO				
Status:		REVRCD				
RAO Class:		A3				
Date:		10/30/1997				
Status Description:		Revised Statement or Transmittal Received				
Action:		AUDCOM				
Status:		AFUCS				
RAO Class:		A3				
Date:		6/4/2002				
Status Description:		AFUCS				
Action:		REL				
Status:		TCTRNS				
RAO Class:		A3				
Date:		10/15/1988				
Status Description:		Valid Transition Site (Retired)				
Action:		AUL				
Status:		RECPT				
RAO Class:		A3				
Date:		10/27/1997				
Status Description:		Transmittal, Notice, or Notification Received				
Action:		C&E				
Status:		INTLET				
RAO Class:		A3				
Date:		9/2/1994				
Status Description:		INTLET				
Action:		AUL				
Status:		LEGNOT				
RAO Class:		A3				
Date:		6/20/2002				
Status Description:		Legal Notice Published				
Action:		AUDCOM				
Status:		NAFNVD				
RAO Class:		A3				
Date:		12/4/2001				
Status Description:		NAFNVD				
Action:		TREGS				
Status:		WAVDN				
RAO Class:		A3				
Date:		7/23/1993				
Status Description:		WAVDN				
Action:		RLFA				
Status:		FLDRAN				
RAO Class:		A3				
Date:		9/3/1999				
Status Description:		Compliance Field Response - Announced				
Action:		AUL				
Status:		SNAUDI				
RAO Class:		A3				
Date:		4/14/2011				
Status Description:		Level II - Audit Inspection				

Chemical Information

Chemical: UNKNOWN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Amount:
Unit:

LSP Information

LSP: 8765
Name: WOOD, DUNCAN W

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 10/15/1988
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 12/04/2001
RAO Class: A3
Activity Use Limitation: NOTICE

Response Action Type: AUL Activity and Use Limitation
Status: SNAUDI Level II - Audit Inspection
Submittal Date: 04/14/2011
RAO Class:
Activity Use Limitation:

RAO Information

Class: A3
Method: 2
GW Category: 2
Soil Category: 1

106	1 of 3	W	0.00 / 7.29	230.45 / 37	KUSTOM KREATIONS INC 104 FOREST ST HUDSON MA 017490000	FINDS/FRS
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Registry ID: 110044754003
FIPS Code: 25017
HUC Code: 01070005
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 09-JAN-12
Update Date:
Interest Types: STATE MASTER, UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 05
Census Block Code: 250173221003007
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude: 42.38806
Longitude: -71.55251
Reference Point: CENTER OF A FACILITY OR STATION

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110044754003
Program Acronyms:

MA-EPICS:527645, MA-EPICS:607554, RCRAINFO:MAR000573824

106	2 of 3	W	0.00 / 7.29	230.45 / 37	KUSTOM KREATIONS INC 104 FOREST AVE HUDSON MA 01749	GEN
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EPA ID No: MAR000573824
2nd Name:
Phone: 508-523-5676

106	3 of 3	W	0.00 / 7.29	230.45 / 37	KUSTOM KREATIONS INC 104 FOREST AVE HUDSONHUDSON MA 01749	RCRA CESQG
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EPA Handler ID: MAR000573824
Gen Status Universe: VSG
Contact Name: MATTHEW HEINECKE
Contact Address: 104 , FOREST AVE , , HUDSONHUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-523-5676
Contact Email: KUSTOMKREATIONS@VERIZON.NET
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20200106

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200106
Handler Name: KUSTOM KREATIONS INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Federal Waste Generator Code: 3
Generator Code Description: Very Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	104
Type:	Private	Street 1:	FOREST AVE
Name:	MATTHEW HEINECKE	Street 2:	
Date Became Current:	20200103	City:	HUDSON
Date Ended Current:		State:	MA
Phone:	508-523-5676	Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Owner	Street No:	104
Type:	Private	Street 1:	FOREST AVE
Name:	KUSTOM KREATIONS INC	Street 2:	
Date Became Current:	20200103	City:	HUDSON
Date Ended Current:		State:	MA
Phone:	978-568-0098	Country:	US
Source Type:	Notification	Zip Code:	01749

<u>107</u>	1 of 1	ESE	0.08 / 432.13	144.95 / -49	BARRETT RESIDENCE 222 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID:	100094748	Project Start Dt:	09/30/2009
Form Type:	ANF-001	Project End Dt:	09/30/2009
Project Type:	Renv		
Owner Name:	RYAN BARRETT		
Owner address:	222 BOSTON POST ROAD		
DLS Contractor:	ENVIRONMENTAL ENTERPRISES & ASSOC INC		
DLS Contractor ID:	AC000284		
Site Supervisor:	ANTHONY T MCNALLY		
Site Supervisor ID:	AS060627		

<u>108</u>	1 of 1	WNW	0.39 / 2,047.25	203.84 / 10	MOREL FOREIGN AUTO REPAIR 406 MAIN ST HUDSON MA	RELEASE
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RTN:	2-0000255	Phase:	
Compliance Date:	8/20/2002	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	1/15/1989	Site Name (BWSC):	MOREL FOREIGN AUTO REPAIR
Source:		Address (BWSC):	406 MAIN ST
Reporting Category:	NONE	Town (BWSC):	HUDSON
Site (EEA Data):	MOREL FOREIGN AUTO REPAIR	Zip Code (BWSC):	01749
Rel Add(EEA Data):	406 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000255		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtm=2-0000255		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: UNKNOWN
 Amount:
 Units:

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 20-Aug-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 08-Dec-1997 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TSAUD **F Name:**
Date: 30-Aug-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FEECDR **F Name:**
Date: 20-Dec-2004 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Not Required - Fee Credited
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 20-Aug-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TCTRNS **F Name:**
Date: 15-Jan-1989 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 20-Aug-2002 **OHM:**
OFC Notification: 15-Jan-1989
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
109	1 of 8	ESE	0.05 / 283.47	154.88 / -39	SUDBURY AUTOMOTIVE 209 BOSTON POST RD SUDBURY MA 01776	UST

Facility ID:	11003	Address (Map):	209 BOSTON POST RD
Owner ID:	6417	City (Map):	SUDBURY
Facility Status:	OPEN	Facility Contact:	Patrick Bond
Facility Name:	SUDBURY AUTOMOTIVE	Facility Phone:	9784437374
Fac Add 1:	209 BOSTON POST RD	Facility Lat:	42.36097
Facility City:	SUDBURY	Facility Long:	-71.40234
Fac Name (Map):	SUDBURY AUTOMOTIVE INC		
Facility Type:	Retail Motor Vehicle Fuel Dispensing		

Facility Information Details

Con Add 1:	209 Boston Post Road	Con Phone:	9784437374
Con Add 2:		Con Email:	pbond2010@verizon.net
Con City:	Sudbury	Update Date:	11-May-2016
Con State:	MA	Update By:	
Con Zip:	01776		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Searchable UST Facility Details

Status:	OPEN	Owner Name:	DELTA LAND TRUST OF SUDBURY
Last Inspection Dt:	5/7/2019	Owner Contact Name:	Michael R. Pearlman
Next Insp Due Date:	5/11/2022	Operator Name:	Bond Enterprises, Inc.
Last Cert Compl Dt:	11/1/2017	Oper Contact Name:	Patrick Bond
Next Cert Compl Due:	11/11/2020		

Owner Information

Owner Name:	DELTA LAND TRUST OF SUDBURY	Contact Name:	Michael R. Pearlman
Owner Add 1:	172 BISHOPS FOREST DR	Contact Add 1:	172 Bishops Forest Drive
Owner Add 2:		Contact Add 2:	
Owner City Town:	WALTHAM	Contact City Town:	Waltham
Owner State:	MA	Contact State:	MA
Owner Zip:	02452	Contact Zip:	02452
Organization Type:	Private	Contact Phone:	3392229766
FR Type:		Contact E Mail:	mpearlman@cfa.harvard.edu
Business:	Trust		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	25-May-1976	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	03-Nov-2015	Turb Sump Sensor:	NO
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	8000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instld:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:			
Tank Construct:	Single-walled metal tank (cathodic protection required)		
Tank Leak Detect:	In-Tank Monitoring System		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tank Corrosion Type: Leak Corrosion Type: Note:					Field Constructed Impressed Current System This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).	
Tank ID: Install Date: Status: Status Date: Use Type: Content: Capacity: No of Compartment: Latitude: Longitude: Auto Line Lk Dtect: Pipe Install Date: Pipe Type: Pipe Construct: Pipe Leak Detect: Pipe Leak Install: Tank Construct: Tank Leak Detect: Tank Corrosion Type: Leak Corrosion Type: Note:	3 25-May-1966 Tank Removed 03-Nov-2015 Motor Vehicle Gasoline 4000.00000				Double-walled non-corrodible material (No corrosion protection required) Continuous Interstitial Space Monitoring Single-walled metal tank (cathodic protection required) In-Tank Monitoring System Field Constructed Impressed Current System This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).	Submersible Sump: NO Submer Sump Instl: Turbine Sump: NO Turb Sump Sensor: NO Intermediate Sump: NO Interm Sump Sensor: NO Spl Buck Installed: Spill Bucket Sens: NO Overf Prot Instled: Overfill Prot Type:
Tank ID: Install Date: Status: Status Date: Use Type: Content: Capacity: No of Compartment: Latitude: Longitude: Auto Line Lk Dtect: Pipe Install Date: Pipe Type: Pipe Construct: Pipe Leak Detect: Pipe Leak Install: Tank Construct: Tank Leak Detect: Tank Corrosion Type: Leak Corrosion Type: Note:	2 25-May-1966 Tank Removed 03-Nov-2015 Motor Vehicle Gasoline 5000.00000				Single-walled metal tank (cathodic protection required) In-Tank Monitoring System Field Constructed Impressed Current System This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).	Submersible Sump: NO Submer Sump Instl: Turbine Sump: NO Turb Sump Sensor: NO Intermediate Sump: NO Interm Sump Sensor: NO Spl Buck Installed: Spill Bucket Sens: NO Overf Prot Instled: Overfill Prot Type:
Tank ID: Install Date: Status: Status Date: Use Type: Content: Capacity: No of Compartment: Latitude: Longitude: Auto Line Lk Dtect: Pipe Install Date: Pipe Type: Pipe Construct: Pipe Leak Detect: Pipe Leak Install: Tank Construct: Tank Leak Detect: Tank Corrosion Type: Leak Corrosion Type: Note:	6 20-Nov-2015 In Use 22-Jan-2016 Motor Vehicle Gasoline 4000.00000				20-Nov-2015 Pressurized piping system with electronic automatic line leak detection Double-walled non-corrodible material (No corrosion protection required) Continuous Interstitial Space Monitoring 20-Nov-2015 Double-walled non-corrodible (including "composite") material (cathodic protection not required) Continuous Interstitial Monitoring	Submersible Sump: YES Submer Sump Instl: 20-Nov-2015 Turbine Sump: YES Turb Sump Sensor: YES Intermediate Sump: YES Interm Sump Sensor: YES Spl Buck Installed: 20-Nov-2015 Spill Bucket Sens: NO Overf Prot Instled: 07-Jun-2016 Overfill Prot Type: High level alarm

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tank Corrosion Type:
Leak Corrosion Type:
Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Tank ID:	5	Submersible Sump:	YES
Install Date:	20-Nov-2015	Submer Sump Instl:	20-Nov-2015
Status:	In Use	Turbine Sump:	YES
Status Date:	22-Jan-2016	Turb Sump Sensor:	YES
Use Type:	Motor Vehicle	Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	10000.00000	Spl Buck Installed:	20-Nov-2015
No of Compartment:		Spill Bucket Sens:	NO
Latitude:	42.36097	Overf Prot Instled:	07-Jun-2016
Longitude:	-71.40234	Overfill Prot Type:	High level alarm
Auto Line Lk Dtect:	20-Nov-2015		
Pipe Install Date:	20-Nov-2015		
Pipe Type:	Pressurized piping system with electronic automatic line leak detection		
Pipe Construct:	Double-walled non-corrodible material (No corrosion protection required)		
Pipe Leak Detect:	Continuous Interstitial Space Monitoring		
Pipe Leak Install:	20-Nov-2015		
Tank Construct:	Double-walled non-corrodible (including "composite") material (cathodic protection not required)		
Tank Leak Detect:	Continuous Interstitial Monitoring		
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	4	Submersible Sump:	NO
Install Date:	25-May-1966	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Jan-2002	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Waste Oil	Interm Sump Sensor:	NO
Capacity:	500.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:	Single-walled metal (Corrosion protection required)		
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:	Single-walled metal tank (cathodic protection required)		
Tank Leak Detect:	In-Tank Monitoring System		
Tank Corrosion Type:	Field Constructed Impressed Current System		
Leak Corrosion Type:	Field Constructed Impressed Current System		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

MassGIS Data : MassDEP UST (as of April 2016)

Fac ID:	135851	Town:	SUDBURY
UST ID:	11003	Region:	3
Root ID:	174400	Region Desc:	Northeast Region - Wilmington
Ro Acct:	0	Point X:	0
Fac Name:	SUDBURY AUTOMOTIVE INC	Point Y:	0
Address:	209 BOSTON POST RD		

DEP Location Documentation (as of April 2016)

Automation Date:	18-Oct-2012	Location Type:	CT
Primary Loc Dt:		Location Method:	Interpolation - Photo
Secondary Loc Dt:		Point X:	0
Tertiary Loc Dt:		Point Y:	0
Location Base Map:	Digital orthophoto base map (DOQ)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Location Accuracy Estimate: Estimated horizontal accuracy is 0 - +/-16 feet
Primary Location Source: Digital Parcel Data
Secondary Location Source: MassGIS 1:5,000 digital orthophotography
Tertiary Location Source:

109	2 of 8	ESE	0.05 / 283.47	154.88 / -39	NO LOCATION AID 209 BOSTON POST ROAD SUDBURY MA	LUST
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RTN: 3-0033240
Compliance Status: TIER 2
Compl Status Desc: Tier 2
Compliance Date: 11/8/2016
Notification Date: 11/3/2015
RAO Class:
Chemical Type: Oil
Reporting Category: 72 HR

Phase: PHASE IV
Location Type(s): COMMERCIAL
Site Name (BWSC): NO LOCATION AID
Address (BWSC): 209 BOSTON POST ROAD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY
Source(s): FUELTANK, PIPE, TANK, UNKNOWN, UST, USTOTHER, USTPIPE

Site Name (EEA Data Portal): NO LOCATION AID
Release Add (EEA Data Portal): 209 BOSTON POST ROAD
City/Town (EEA Data Portal): SUDBURY
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0033240>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0033240>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: TIERII
Current Status Desc: Tier 2 Classification
Current Date: 08-Nov-2016
OFC Notification: 03-Nov-2015
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Other Rela:

Category: 72 HR
Phase: PHASE IV
RAO Class:
OHM: Oil

Chemical Information

Chemical: GASOLINE VOCS
Amount: 1453
Units: PPMV

Chemical: GASOLINE
Amount: 1000
Units: PPMV

Action Information

Date: 12-Dec-2016
Action: TCLASS
Action Description: Tier Classification
Status: LEGNOT
Status Description: Legal Notice Published
RAO Class:
RAO Class Desc:

First Name:
Last Name:

Date: 08-Nov-2016
Action: TCLASS
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class:

First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Date:	22-Jun-2016				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Date:	08-Nov-2016				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIERII					
Status Description:	Tier 2 Classification					
RAO Class:						
RAO Class Desc:						
Date:	03-Mar-2016				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2016				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Date:	20-Sep-2016				First Name:	
Action:	BOL				Last Name:	
Action Description:	Bill of Lading					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Date:	15-Dec-2016				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	24-Jun-2016				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:						
RAO Class Desc:						
Date:	21-Dec-2017				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	08-Nov-2016				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Date:	15-Aug-2019				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Date:	26-Jun-2019				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:		STRCVD				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	27-Nov-2015				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Date:	31-Dec-2018				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:		STRCVD				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Date:	29-Jun-2016				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Date:	08-Mar-2016				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Date:	30-Aug-2017				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:		REVRCD				
Status Description:		Revised Statement or Transmittal Received				
RAO Class:						
RAO Class Desc:						
Date:	22-Jan-2020				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:		STRCVD				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	22-Sep-2016 BOL Bill of Lading RECPT Transmittal, Notice, or Notification Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	07-Sep-2016 NOR Notice of Responsibility ALSENT Anniversary Letter Sent				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	02-Nov-2016 PHASEI Phase 1 CSRCVD Completion Statement Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	04-Jun-2018 PHASII Phase 2 CSRCVD Completion Statement Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	08-Jan-2016 IRA Immediate Response Action IHEVAL Imminent Hazard Evaluation Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	13-Nov-2015 IRA Immediate Response Action APORMD Oral Approval of a Modified Plan				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	15-Dec-2016 RAM Release Abatement Measure PLANMD Modified Revised or Updated Plan Received				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description: RAO Class: RAO Class Desc:	03-Nov-2015 REL Release Disposition REPORT Reportable Release under MGL 21E				First Name: Last Name:	
Date: Action: Action Description: Status: Status Description:	05-Jan-2016 RNF Release Notification Form Received REPORT Reportable Release under MGL 21E				First Name: Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:						
RAO Class Desc:						
Date:	24-May-2017				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	09-Nov-2015				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORMD					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:						
RAO Class Desc:						
Date:	03-Nov-2015				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:						
RAO Class Desc:						
Date:	11-Jul-2018				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Date:	05-Jan-2016				First Name:	
Action:	RNFE				Last Name:	
Action Description:	Release Notification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Date:	08-Jan-2016				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Date:	12-Jan-2016				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	02-Aug-2018				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Date:	16-Dec-2016				First Name:	
Action:	RAM				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Release Abatement Measure
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

109	3 of 8	ESE	0.05 / 283.47	154.88 / -39	NO LOCATION AID 209 BOSTON POST ROAD SUDBURY MA 01776-0000	LST
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Site No: 3-0033240
Source: FUEL TANK, PIPE, TANK, UNKNOWN, UST, USTOTHER
Release Type: TIER 2
Chemical Type: Oil
Category: 72 HR
ROA Class Desc:
Phase Desc: Comprehensive Site Assessment. During Phase II, the risks posed to public health, welfare, and the environment are determined.
Release Type Desc: A site/release receiving a total NRS score of less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (see above). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.
Status Desc: Tier 2
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0033240>
Location Type: COMMERCIAL

Chemicals Information

Chemical: GASOLINE VOCS
Amount: 1453
Units: PPMV

Chemical: GASOLINE
Amount: 1000
Units: PPMV

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 11/03/2015
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASE I Phase 1
Status: REVRCD Revised Statement or Transmittal Received
Submittal Date: 08/30/2017
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: STRCVD Status or Interim Report Received
Submittal Date: 05/24/2017
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 06/22/2016
RAO Class:
RAO Description:
Activity and Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/05/2016
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: TCLASS Tier Classification
Status: LEGNOT Legal Notice Published
Submittal Date: 12/12/2016
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 5800
LSP Name: STEVENSON, THOMAS J

109	4 of 8	ESE	0.05 / 283.47	154.88 / -39	NO LOCATION AID 209 BOSTON POST ROAD SUDBURY MA 01776-0000	SPILLS
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RTN: 3-0033240
Primary ID:
Compliance Status:
Current Status: TIERII
Current Status Desc: Site has been classified as Tier 2
Current Date: 11/8/2016
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: TIER 2
Location Type: COMMERCIAL
Category: 72 HR
Initial Status Date: 11/3/2016
Notification Date: 11/3/2015
Source: TANK,UST,USTOTHER,UNKNOWN,FUELTANK,PIPE
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0033240>
Phase: PHASE II
Phase Desc: Comprehensive Site Assessment. During Phase II, the risks posed to public health, welfare, and the environment are determined
Office Town: SUDBURY

Actions

Action: PHASEI
Status: CSRCVD
RAO Class:
Date: 11/8/2016
Status Description: Completion Statement Received

Action: RNFE
Status: RECPT
RAO Class:
Date: 1/5/2016
Status Description: Transmittal, Notice, or Notification Received

Action: BOL
Status: RECPT
RAO Class:
Date: 9/20/2016
Status Description: Transmittal, Notice, or Notification Received

Action: IRA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		APORMD				
RAO Class:						
Date:		11/13/2015				
Status Description:		Oral Approval of a Modified Plan				
Action:		PHASEI				
Status:		REVRCD				
RAO Class:						
Date:		8/30/2017				
Status Description:		Revised Statement or Transmittal Received				
Action:		IRA				
Status:		PLANWR				
RAO Class:						
Date:		1/8/2016				
Status Description:		Written Plan Received				
Action:		IRA				
Status:		IHEVAL				
RAO Class:						
Date:		1/8/2016				
Status Description:		Imminent Hazard Evaluation Received				
Action:		RAM				
Status:		STRCVD				
RAO Class:						
Date:		5/24/2017				
Status Description:		Status or Interim Report Received				
Action:		BOL				
Status:		RECPT				
RAO Class:						
Date:		9/22/2016				
Status Description:		Transmittal, Notice, or Notification Received				
Action:		IRA				
Status:		CSRCVD				
RAO Class:						
Date:		6/22/2016				
Status Description:		Completion Statement Received				
Action:		IRA				
Status:		TSAUD				
RAO Class:						
Date:		1/12/2016				
Status Description:		Level I - Technical Screen Audit				
Action:		PHASEI				
Status:		CSRCVD				
RAO Class:						
Date:		11/2/2016				
Status Description:		Completion Statement Received				
Action:		NOR				
Status:		ALSENT				
RAO Class:						
Date:		9/7/2016				
Status Description:		Anniversary Letter Sent				
Action:		IRA				
Status:		TSAUD				
RAO Class:						
Date:		3/8/2016				
Status Description:		Level I - Technical Screen Audit				
Action:		IRA				
Status:		APORAL				
RAO Class:						
Date:		11/3/2015				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:					Oral Approval of Plan or Action	
Action:					RAM	
Status:					PLANMD	
RAO Class:						
Date:					12/15/2016	
Status Description:					Modified Revised or Updated Plan Received	
Action:					TCLASS	
Status:					LEGNOT	
RAO Class:						
Date:					12/12/2016	
Status Description:					Legal Notice Published	
Action:					IRA	
Status:					APORMD	
RAO Class:						
Date:					11/9/2015	
Status Description:					Oral Approval of a Modified Plan	
Action:					RNF	
Status:					REPORT	
RAO Class:						
Date:					1/5/2016	
Status Description:					Reportable Release under MGL 21E	
Action:					RAM	
Status:					TSAUD	
RAO Class:						
Date:					12/16/2016	
Status Description:					Level I - Technical Screen Audit	
Action:					RAM	
Status:					STRCVD	
RAO Class:						
Date:					12/21/2017	
Status Description:					Status or Interim Report Received	
Action:					REL	
Status:					REPORT	
RAO Class:						
Date:					11/3/2015	
Status Description:					Reportable Release under MGL 21E	
Action:					IRA	
Status:					STRCVD	
RAO Class:						
Date:					3/3/2016	
Status Description:					Status or Interim Report Received	
Action:					NOR	
Status:					ISSUED	
RAO Class:						
Date:					11/27/2015	
Status Description:					Correspondence Issued	
Action:					RAM	
Status:					FEEREC	
RAO Class:						
Date:					6/24/2016	
Status Description:					Fee Received	
Action:					RAM	
Status:					STRCVD	
RAO Class:						
Date:					12/15/2016	
Status Description:					Status or Interim Report Received	
Action:					RAM	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		TSAUD				
RAO Class:						
Date:		6/29/2016				
Status Description:		Level I - Technical Screen Audit				
Action:		TCLASS				
Status:		TIERII				
RAO Class:						
Date:		11/8/2016				
Status Description:		Tier 2 Classification				
Action:		RAM				
Status:		PLANWR				
RAO Class:						
Date:		6/29/2016				
Status Description:		Written Plan Received				
Action:		TCLASS				
Status:		RECPT				
RAO Class:						
Date:		11/8/2016				
Status Description:		Transmittal, Notice, or Notification Received				
<u>Chemical Information</u>						
Chemical:		GASOLINE				
Amount:		1000				
Unit:		PPMV				
Chemical:		GASOLINE VOCS				
Amount:		1453				
Unit:		PPMV				
<u>LSP Information</u>						
LSP:		5800				
Name:		STEVENSON, THOMAS J				
<u>Response Action Information</u>						
Response Action Type:		IRA Immediate Response Action				
Status:		CSRCVD Completion Statement Received				
Submittal Date:		06/22/2016				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAM Release Abatement Measure				
Status:		STRCVD Status or Interim Report Received				
Submittal Date:		05/24/2017				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		PHASEI Phase 1				
Status:		REVRCD Revised Statement or Transmittal Received				
Submittal Date:		08/30/2017				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		11/03/2015				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		TCLASS Tier Classification				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: LEGNOT Legal Notice Published
Submittal Date: 12/12/2016
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/05/2016
RAO Class:
Activity Use Limitation:

Location Information

Location: COMMERCIAL

Source Information

Source: UNKNOWN
Source: TANK
Source: FUELTANK
Source: USTOTHER
Source: UST
Source: PIPE

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RTN:	3-0033240	Phase:	PHASE IV
Compliance Date:	11/8/2016	RAO Class:	
Compliance Status:	TIER 2	Chemical Type:	Oil
Compl Status Desc:	Tier 2	Location Type:	COMMERCIAL
Notification Date:	11/3/2015	Site Name (BWSC):	NO LOCATION AID
Source:	FUELTANK, PIPE, TANK, UNKNOWN, UST, USTOTHER, USTPIPE	Address (BWSC):	209 BOSTON POST ROAD
Reporting Category:	72 HR	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	209 BOSTON POST ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0033240		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0033240		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: GASOLINE VOCS
Amount: 1453
Units: PPMV

Chemical: GASOLINE
Amount: 1000
Units: PPMV

Action Information (BWSC)

Status: IHEVAL **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	08-Jan-2016				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Imminent Hazard Evaluation Received				
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	27-Nov-2015				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	15-Dec-2016				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	03-Nov-2015				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of Plan or Action				
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	15-Aug-2019				L Name:	
Action:	PHSIII					
Action Description:		Phase 3				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	24-May-2017				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	31-Dec-2018				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	16-Dec-2016				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	05-Jan-2016				L Name:	
Action:	RNFE					
Action Description:		Release Notification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:		TSAUD			F Name:	
Date:		12-Jan-2016			L Name:	
Action:		IRA				
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:		PLANMD			F Name:	
Date:		15-Dec-2016			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Modified Revised or Updated Plan Received				
RAO Class:						
RAO Class Desc:						
Status:		STRCVD			F Name:	
Date:		11-Jul-2018			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:		RECPT			F Name:	
Date:		22-Sep-2016			L Name:	
Action:		BOL				
Action Description:		Bill of Lading				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:						
RAO Class Desc:						
Status:		APORMD			F Name:	
Date:		09-Nov-2015			L Name:	
Action:		IRA				
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of a Modified Plan				
RAO Class:						
RAO Class Desc:						
Status:		APORMD			F Name:	
Date:		13-Nov-2015			L Name:	
Action:		IRA				
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of a Modified Plan				
RAO Class:						
RAO Class Desc:						
Status:		CSRCVD			F Name:	
Date:		02-Nov-2016			L Name:	
Action:		PHASE1				
Action Description:		Phase 1				
Status Description:		Completion Statement Received				
RAO Class:						
RAO Class Desc:						
Status:		STRCVD			F Name:	
Date:		26-Jun-2019			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:		STRCVD			F Name:	
Date:		21-Dec-2017			L Name:	
Action:		RAM				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Release Abatement Measure				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TIERII			F Name:		
Date:	08-Nov-2016			L Name:		
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD			F Name:		
Date:	03-Mar-2016			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	REVRCD			F Name:		
Date:	30-Aug-2017			L Name:		
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT			F Name:		
Date:	03-Nov-2015			L Name:		
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	RECPT			F Name:		
Date:	20-Sep-2016			L Name:		
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD			F Name:		
Date:	22-Jun-2016			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR			F Name:		
Date:	08-Jan-2016			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD			F Name:		
Date:	02-Aug-2018			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	CSRCVD				F Name:	
Date:	08-Nov-2016				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	29-Jun-2016				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	08-Nov-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	08-Mar-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	07-Sep-2016				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	04-Jun-2018				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	FEEREC				F Name:	
Date:	24-Jun-2016				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Fee Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	29-Jun-2016				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	22-Jan-2020				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:
RAO Class Desc:

Status: REPORT F Name:
Date: 05-Jan-2016 L Name:
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: LEGNOT F Name:
Date: 12-Dec-2016 L Name:
Action: TCLASS
Action Description: Tier Classification
Status Description: Legal Notice Published
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: Category: 72 HR
Current Status: TIERII Phase: PHASE IV
Current St Desc: Tier 2 Classification RAO Class:
Current Date: 08-Nov-2016 OHM: Oil
OFC Notification: 03-Nov-2015
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc:
Other Rela:

109	6 of 8	ESE	0.05 / 283.47	154.88 / -39	SUDBURY AUTOMOTIVE INC 209 BOSTON POST RD SUDBURY MA 01776	GEN
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EPA ID No: MAV000011143
2nd Name:
Phone: 978-443-7374

109	7 of 8	ESE	0.05 / 283.47	154.88 / -39	NO LOCATION AID 209 BOSTON POST ROAD SUDBURY MA	OIL & HAZ MAT
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RTN: 3-0033240
Status: TIERII
Region - Office Location: Northeast Region - Wilmington
Site Info: https://eeaonline.eea.state.ma.us/portal#!/search/wastesite/results?RTN=3-0033240
Data Source: MassDEP Tier Classified Oil and/or Hazardous Material Sites

Location Documentation Table

Primary Source Material Code: DB_EPICS
Prim Source Mat Code Desc: DEP Environmental Protection Integrated Computer System
Secondary Source Mat Code:
Sec Source Mat Code Desc:
Tertiary Source Mat Code:
Tertiary Source Mat Code Desc:
Location Type Code: EL
Location Type Desc: Estimated location
Location Method Code: AM_1
Location Method Desc: Address matched to number and street or parcel
Location Accuracy Est Code: 0
Location Accuracy Est Desc: Horizontal accuracy estimate unknown
Location Base Map Code: NA
Location Base Map Desc: Not applicable (NA), automation based on address match technique or Coordinate input from source such as

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
external database or GPS.						

[109](#) 8 of 8 **ESE** **0.05 / 283.47** **154.88 / -39** **SUDBURY AUTOMOTIVE INC
209 BOSTON POST RD
SUDBURY MA 01776** **RCRA
NON GEN**

EPA Handler ID: MAV000011143
Gen Status Universe: No Report
Contact Name:
Contact Address:
Contact Phone No and Ext:
Contact Email:
Contact Country:
County Name: MIDDLESEX
EPA Region: 01
Land Type:
Receive Date: 20020614

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20020614
Handler Name: SUDBURY AUTOMOTIVE INC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

[110](#) 1 of 1 **ESE** **0.05 / 286.16** **152.67 / -41** **PATRICK DELANEY
206 BOSTON POST ROAD
SUDBURY MA** **ASBESTOS
PROJECT**

Project ID: 100163336 **Project Start Dt:** 11/16/2012
Form Type: ANF-001 **Project End Dt:** 11/16/2012
Project Type: Renv
Owner Name: PATRICK DELANEY
Owner address: 206 BOSTON POST ROAD
DLS Contractor: AFFORDABLE ENVIRONMENTAL
DLS Contractor ID: AC000735
Site Supervisor: WILLIAM M CONNELLY
Site Supervisor ID: AS041906

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
111	1 of 3	ESE	0.05 / 268.70	152.64 / -41	SUDBURY AUTOMOTIVE RTE 20 @ LANHAM RD SUDBURY MA	HIST LUST

Spill ID: N91-1290
Site ID: 0000
Case Closed: YES
LUST: ---
Incident: OVERFILL
Other Incident:
Source: U.S.T.
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: GASOLINE
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 51-100
CAS # for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: -----
Act. Units Spilled: -----
Spill Date:
Spill Time:
Rport Date:
Rport Time: 11:15AM
Notifier: J BURNHAM/HELEN TRANSPORT
Notifier Phone:
First IR Form:
Staff Lead: FONKEM, V
Category: 1A
Days For Case: 203
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

111	2 of 3	ESE	0.05 / 268.70	152.64 / -41	NO LOCATION AID BOSTON POST ROAD AT LANDHAM RD SUDBURY MA	RELEASE
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RTN: 3-0027224
Compliance Date: 11/7/2007
Compliance Status: URAM
Compl Status Desc: Utility-abatement Measure
Notification Date: 10/31/2007
Source: UNKNOWN
Reporting Category: 120 DY
Site (EEA Data): NO LOCATION AID
Rel Add(EEA Data): BOSTON POST ROAD AT LANDHAM RD
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0027224>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0027224>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class:
Chemical Type: Oil
Location Type: RIGHTOFWAY, ROADWAY
Site Name (BWSC): NO LOCATION AID
Address (BWSC): BOSTON POST ROAD AT LANDHAM RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Chemical Information (BWSC)

Chemical: GASOLINE
Amount:
Units:

Action Information (BWSC)

Status: TSAUD
Date: 05-Nov-2007
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
Status:	CSRCVD				F Name:	
Date:	05-Mar-2008				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	31-Oct-2007				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	05-Mar-2008				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	URAMNT				F Name:	
Date:	07-Nov-2007				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Notification of URAM Received					
RAO Class:						
RAO Class Desc:						
Status:	INTENT				F Name:	
Date:	31-Oct-2007				L Name:	
Action:	URAM					
Action Description:	Utility-related Abatement Measure					
Status Description:	Notice of Intent to Conduct a URAM					
RAO Class:						
RAO Class Desc:						
 <u>Release (BWSC) Detail</u>						
Prim ID:					Category:	120 DY
Current Status:	URAM				Phase:	
Current St Desc:	Utility-abatement Measure				RAO Class:	
Current Date:	07-Nov-2007				OHM:	Oil
OFC Notification:	31-Oct-2007					
Phase Desc:						
RAO Class Desc:						
Other Rela:						
<hr/>						
111	3 of 3	ESE	0.05 / 268.70	152.64 / -41	NO LOCATION AID BOSTON POST ROAD AT LANDHAM RD SUDBURY MA 01776-0000	SPILLS
RTN:	3-0027224					
Primary ID:						
Compliance Status:						
Current Status:	URAM					
Current Status Desc:	A Release Tracking Number has been assigned to a release where a Utility-abatement Measure is being or was performed					
Current Date:	11/7/2007					
RAO Class:						
RAO Class Desc:						
Chemical Type:						
Release Type:	URAM					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Location Type:		RIGHTOFWAY,ROADWAY				
Category:		120 DY				
Initial Status Date:		10/31/2008				
Notification Date:		10/31/2007				
Source:		UNKNOWN				
Additional Files URL:		http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0027224				
Phase:						
Phase Desc:						
Office Town:		SUDBURY				
<u>Actions</u>						
Action:		URAM				
Status:		TSAUD				
RAO Class:						
Date:		11/5/2007				
Status Description:		Level I - Technical Screen Audit				
Action:		URAM				
Status:		INTENT				
RAO Class:						
Date:		10/31/2007				
Status Description:		Notice of Intent to Conduct a URAM				
Action:		URAM				
Status:		CSRCVD				
RAO Class:						
Date:		3/5/2008				
Status Description:		Completion Statement Received				
Action:		URAM				
Status:		URAMNT				
RAO Class:						
Date:		11/7/2007				
Status Description:		Notification of URAM Received				
Action:		REL				
Status:		REPORT				
RAO Class:						
Date:		10/31/2007				
Status Description:		Reportable Release under MGL 21E				
Action:		URAM				
Status:		TSAUD				
RAO Class:						
Date:		3/5/2008				
Status Description:		Level I - Technical Screen Audit				
<u>Chemical Information</u>						
Chemical:		GASOLINE				
Amount:						
Unit:						
<u>LSP Information</u>						
LSP:		6048				
Name:		MCBRIDE, GREGG W				
<u>Response Action Information</u>						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		10/31/2007				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:
Activity Use Limitation:

Response Action Type: URAM Utility-related Abatement Measure
 Status: TSAUD Level I - Technical Screen Audit
 Submittal Date: 03/05/2008
 RAO Class:
 Activity Use Limitation:

Location Information

Location: RIGHTOFWAY
 Location: ROADWAY

Source Information

Source: UNKNOWN

112	1 of 1	W	0.26 / 1,363.83	201.75 / 8	LPM HOLDING INC 90 CHERRY ST HUDSON MA	RELEASE
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RTN:	2-0015363	Phase:	
Compliance Date:	9/16/2004	RAO Class:	
Compliance Status:	DPS	Chemical Type:	Oil
Compl Status Desc:	Downgradient Property Status	Location Type:	
Notification Date:	8/9/2004	Site Name (BWSC):	LPM HOLDING INC
Source:		Address (BWSC):	90 CHERRY ST
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	LPM HOLDING INC	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	90 CHERRY ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015363		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015363		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 1290
Units: MG/KG

Action Information (BWSC)

Status:	RECPT	F Name:	
Date:	16-Sep-2004	L Name:	
Action:	DPS		
Action Description:	Downgradient Property Status		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:			
RAO Class Desc:			

Status:	REPORT	F Name:	
Date:	09-Aug-2004	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:			
RAO Class Desc:			

Status: FOLOFF **F Name:**
Date: 23-Aug-2004 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 07-Sep-2004 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: INTLET **F Name:**
Date: 13-Aug-2004 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 17-Sep-2004 **L Name:**
Action: DPS
Action Description: Downgradient Property Status
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: RFI **F Name:**
Date: 13-Aug-2004 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 09-Aug-2004 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: DPS **Phase:**
Current St Desc: Downgradient Property Status **RAO Class:**
Current Date: 16-Sep-2004 **OHM:** Oil
OFC Notification: 09-Aug-2004
Phase Desc:
RAO Class Desc:
Other Rela:

113	1 of 2	ESE	0.07 / 354.42	149.91 / -44	TED SHYLOUSKY 192 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
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Project ID: 100040840 **Project Start Dt:** 09/27/2006
Form Type: ANF-001 **Project End Dt:** 09/27/2006
Project Type: Renv

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner Name:		TED SLHLOUSKY				
Owner address:		192 BOSTON POST ROAD				
DLS Contractor:		NEALCO ENVIRONMENTAL				
DLS Contractor ID:		AC000484				
Site Supervisor:		NEAL A CASS				
Site Supervisor ID:		AS072613				
113	2 of 2	ESE	0.07 / 354.42	149.91 / -44	HOUSE 192 BOSTON POST RD SUDBURY MA	ASBESTOS PROJECT
Project ID:		100148921		Project Start Dt:		06/02/2012
Form Type:		ANF-001		Project End Dt:		06/03/2012
Project Type:		Dem				
Owner Name:		TRASK DEVELOPMENT				
Owner address:		160 S MAIN ST				
DLS Contractor:		AERO TEC ENVIRONMENTAL				
DLS Contractor ID:		AC000558				
Site Supervisor:		GREGORY W. HARDING				
Site Supervisor ID:		AS000278				
114	1 of 1	ESE	0.06 / 337.15	150.21 / -44	KEITH CONSTRUCTION 189 BOSTON POST ROAD SUDBURY MA	ASBESTOS PROJECT
Project ID:		100180038		Project Start Dt:		07/08/2013
Form Type:		ANF-001		Project End Dt:		07/09/2013
Project Type:		Rpr,Renv				
Owner Name:		KEITH CONSTRUCTION				
Owner address:		189 BOSTON POST ROAD				
DLS Contractor:		ATLANTIC BAY CONTRACTING COMPANY INC				
DLS Contractor ID:		AC000309				
Site Supervisor:		MARLON E. ESTRADA				
Site Supervisor ID:		AS061570				
115	1 of 6	W	0.24 / 1,280.80	201.78 / 8	HUDSON LIGHT & POWER DEPT - CHERRY ST 77 CHERRY ST HUDSON MA 01749	AST
License No:		OSFM-00741				
Owner Name:		DAN MURPHY, PLANT SUPERINTENDENT				
Owner Addr 2:						
Owner Addr 3:						
Owner State:		MA				
Detail(s)						
License Status:		Tank Removed		Expire Date:		9/18/2009
License Type:		AST Use Permit		Gross Capacity:		20000
Last Insp Date:		9/18/2008		Unit:		GALLONS
115	2 of 6	W	0.24 / 1,280.80	201.78 / 8	HUDSON LIGHT & POWER DEPT - CHERRY ST 77 CHERRY ST HUDSON MA 01749	AST
License No:		OSFM-00783				
Owner Name:		DAN MURPHY, PLANT SUPERINTENDENT				
Owner Addr 2:						
Owner Addr 3:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner State: MA

Detail(s)

License Status:	Tank Removed	Expire Date:	9/18/2009
License Type:	AST Use Permit	Gross Capacity:	20000
Last Insp Date:	9/18/2008	Unit:	GALLONS

115	3 of 6	W	0.24 / 1,280.80	201.78 / 8	HUDSON LIGHT & POWER DEPARTMENT 77 CHERRY ST HUDSON MA	LAST
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RTN:	2-0017400	Phase:	
Compliance Status:	RAO	Location Type(s):	COMMERCIAL, INDUSTRIAL, MUNICIPAL, RESIDENTIAL, UTILEASE
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	HUDSON LIGHT & POWER DEPARTMENT
Compliance Date:	3/17/2009	Address (BWSC):	77 CHERRY ST
Notification Date:	1/26/2009	Town (BWSC):	HUDSON
RAO Class:	A1	Zip Code (BWSC):	
Chemical Type:		OFC Town (BWSC):	HUDSON
Reporting Category:	TWO HR	Source(s):	AST
Site Name (EEA Data Portal):	HUDSON LIGHT & POWER DEPARTMENT		
Release Add (EEA Data Portal):	77 CHERRY ST		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017400		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017400		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	17-Mar-2009	OHM:	
OFC Notification:	26-Jan-2009		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Other Rela:

Chemical Information

Chemical:	DIESEL
Amount:	890
Units:	GAL

Action Information

Date:	17-Mar-2009	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	RAORCD		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Date:	26-Jan-2009	First Name:	
Action:	RLFA	Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Site Visit or Office Follow-up					
Status:	FLDD1A					
Status Description:	Initial Compliance Field Response - Announced					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	24-Feb-2009				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	17-Mar-2009				First Name:	
Action:	RNFE				Last Name:	
Action Description:	Release Notification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	26-Jan-2009				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	27-Jan-2009				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	26-Jan-2009				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	26-Jan-2009				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	FLDISS					
Status Description:	Field NOR Issued					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

[115](#) 4 of 6

W **0.24 /** **201.78 /**
1,280.80 **8**
HUDSON LIGHT & POWER DEPT
77 CHERRY ST
HUDSON MA 01749

RCRA SQG

EPA Handler ID: MAD980671051
Gen Status Universe: Small Quantity Generator
Contact Name: ANTHONY MONTEIRO
Contact Address: 49 FOREST AVE , , HUDSON , MA, 01749 , US

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Contact Phone No and Ext:		508-568-8736				
Contact Email:						
Contact Country:		US				
County Name:		MIDDLESEX				
EPA Region:		01				
Land Type:		Private				
Receive Date:		19830823				

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 19971009
Scheduled Compliance Date:
Return to Compliance: D
Actual Return to Compl: 19971205
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19971205
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 19971205
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19900509
Scheduled Compliance Date: 19900621
Return to Compliance: O
Actual Return to Compl: 19900629
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19900531
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20180626

Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20130729
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20010927
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19971009
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - Pre-transport
Return to Compliance Date: 19971205
Evaluation Agency: State

Evaluation Start Date: 19920911
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19900509
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19900629
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19830823
Handler Name: HUDSON LIGHT & POWER DEPT
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	49 FOREST AVE
Name:	TOWN OF HUDSON	Street 2:	
Date Became Current:	20041016	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Municipal	Street 1:	49 FOREST AVE
Name:	HUDSON LIGHT & POWER DEPT	Street 2:	
Date Became Current:	19900301	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

115	5 of 6	W	0.24 / 1,280.80	201.78 / 8	HUDSON LIGHT & POWER GENERATING STATION 77 CHERRY ST HUDSON MA 01749	SEMS
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EPA ID:	MAD980671051	County:	MIDDLESEX
Site ID:		Latitude:	
NPL:		Longitude:	
Federal Facility:		County Name(MAP):	MIDDLESEX
Non NPL Status:		Latitude83(MAP):	42.39191
SuperF Alt Agrmnt:		Longitude83(MAP):	-71.55614
FIPS Code:		Region:	
Date SEMS List:	26-AUG-2020	Cong District:	
Primary Name(MAP):	HUDSON LIGHT & POWER GENERATING STATION		
Loc Address(MAP):	77 CHERRY ST		
City Name(MAP):	HUDSON		
State Code(MAP):	MA		
Postal Code(MAP):	01749		
Site Name:	HUDSON LIGHT & POWER		
Street Address:	CHERRY ST. STATION		
Street Address 2:			
City:	HUDSON		
State:	MA		
Zip:	01749		

Site Level Information

Site ID:	0100735	Superfund Alt Agmt:	No
NPL:	Not on the NPL	FIPS Code:	25017
Federal Facility:	No	Cong District:	03
FF Docket:	No	Region:	01
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup		

Action Information

Site ID:	0100735	Start Actual:	
Operable Units:	00	Finish Actual:	08/02/2001
Action Code:	OO	Qual:	L
Action Name:	SITE REASS	Curr Action Lead:	EPA Perf
SEQ:	1		

Site ID:	0100735	Start Actual:	12/01/1983
Operable Units:	00	Finish Actual:	12/01/1983
Action Code:	DS	Qual:	
Action Name:	DISCVRY	Curr Action Lead:	EPA Perf

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SEQ:	1					
Site ID:	0100735				Start Actual:	01/10/2000
Operable Units:	00				Finish Actual:	
Action Code:	VA				Qual:	
Action Name:	OTHR CLEANUP				Curr Action Lead:	St Ovrsght
SEQ:	1					
Site ID:	0100735				Start Actual:	
Operable Units:	00				Finish Actual:	12/31/1985
Action Code:	PA				Qual:	L
Action Name:	PA				Curr Action Lead:	St Perf
SEQ:	1					
Site ID:	0100735				Start Actual:	
Operable Units:	00				Finish Actual:	10/16/1990
Action Code:	SI				Qual:	L
Action Name:	SI				Curr Action Lead:	EPA Perf
SEQ:	1					

REST Information

Registry ID:	110032926662	Ref Point Desc:	CENTER OF A FACILITY OR STATION
Active Status:	NOT ON THE NPL	HUC8 Code:	01070005
Interest Type:	SUPERFUND (NON-NPL)	Public Ind:	Y
Fac Url:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110032926662		
Program Url:			
Pgm Report:	no data yet		
Collect Mth Desc:	ADDRESS MATCHING-HOUSE NUMBER		
Accuracy Value:	30		

115 6 of 6 **W** **0.24 / 1,280.80** **201.78 / 8** **HUDSON LIGHT & POWER DEPARTMENT** **RELEASE**
77 CHERRY ST
HUDSON MA

RTN:	2-0017400	Phase:	
Compliance Date:	3/17/2009	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, INDUSTRIAL, MUNICIPAL, RESIDENTIAL, UTILEASE
Notification Date:	1/26/2009	Site Name (BWSC):	HUDSON LIGHT & POWER DEPARTMENT
Source:	AST	Address (BWSC):	77 CHERRY ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	HUDSON LIGHT & POWER DEPARTMENT	Zip Code (BWSC):	
Rel Add(EEA Data):	77 CHERRY ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017400		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017400		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	DIESEL
Amount:	890
Units:	GAL

Action Information (BWSC)

Status:	FOLOFF	F Name:	
Date:	27-Jan-2009	L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	RECPT				F Name:	
Date:	17-Mar-2009				L Name:	
Action:	RNFE					
Action Description:					Release Notification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FLDISS				F Name:	
Date:	26-Jan-2009				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Field NOR Issued	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FLDD1A				F Name:	
Date:	26-Jan-2009				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Initial Compliance Field Response - Announced	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	APORAL				F Name:	
Date:	26-Jan-2009				L Name:	
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Oral Approval of Plan or Action	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	RAORCD				F Name:	
Date:	17-Mar-2009				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	ISSUED				F Name:	
Date:	24-Feb-2009				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	REPORT				F Name:	
Date:	26-Jan-2009				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Reportable Release under MGL 21E	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 17-Mar-2009
OFC Notification: 26-Jan-2009
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A1
OHM:

116	1 of 2	W	0.24 / 1,292.28	202.63 / 9	PROPERTY 78 CHERRY STREET HUDSON MA	RELEASE
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RTN: 2-0018467
Compliance Date: 1/2/2013
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 12/27/2011
Source: UNKNOWN
Reporting Category: 120 DY
Site (EEA Data): PROPERTY
Rel Add(EEA Data): 78 CHERRY STREET
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018467>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018467>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: B1
Chemical Type: Hazardous Material
Location Type: COMMERCIAL
Site Name (BWSC): PROPERTY
Address (BWSC): 78 CHERRY STREET
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: NICKEL
Amount: 30
Units: MG/KG

Action Information (BWSC)

Status: TSAUD
Date: 28-Mar-2013
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

F Name:
L Name:

Status: RECPT
Date: 27-Dec-2011
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

F Name:
L Name:

Status: ALSNT
Date: 10-Oct-2012
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: ISSUED **F Name:**
Date: 05-Apr-2012 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 02-Jan-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FEEREC **F Name:**
Date: 07-Jan-2013 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 27-Dec-2011 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 02-Jan-2013 **OHM:** Hazardous Material
OFC Notification: 27-Dec-2011
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

116	2 of 2	W	0.24 / 1,292.28	202.63 / 9	ASSABET MACHINE CORP 78 CHERRY ST HUDSON MA 01749	RCRA NON GEN
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EPA Handler ID: MAD081567877
Gen Status Universe: No Report
Contact Name: NEAL DOUGHERTY
Contact Address: 78 CHERRY ST , , HUDSON , MA, 01749-0000 ,
Contact Phone No and Ext: 978-562-7992
Contact Email: SALES@ASSABETMACHINE.COM
Contact Country:
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 20081027

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Details

Citation:
Violation Short Description: Generators - Pre-transport
Violation Type: 262.C
Violation Determined Date: 20080527
Scheduled Compliance Date: 20080903
Return to Compliance: Observed
Actual Return to Compl: 20081203
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20080828
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20081203
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20080527
Scheduled Compliance Date: 20080917
Return to Compliance: Observed
Actual Return to Compl: 20081203
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20080828
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)
Disposition Status Date: 20081203
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Type: XXS
Violation Determined Date: 20080527
Scheduled Compliance Date: 20080903
Return to Compliance: Observed
Actual Return to Compl: 20081203
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20080828
Enf Disposition Status: ACTION SATISFIED (CASE CLOSED)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Disposition Status Date: 20081203
 Enforcement Lead Agency: State
 Proposed Penalty Amount:
 Final Amount:
 Paid Amount:

Evaluation Details

Evaluation Start Date: 20081203
 Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
 Violation Short Description:
 Return to Compliance Date:
 Evaluation Agency: State

Evaluation Start Date: 20080527
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Violation Short Description: State Statute or Regulation
 Return to Compliance Date: 20081203
 Evaluation Agency: State

Evaluation Start Date: 20080527
 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
 Violation Short Description: Generators - Pre-transport
 Return to Compliance Date: 20081203
 Evaluation Agency: State

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19860414
 Handler Name: ASSABET MACHINE CORP
 Source Type: Notification
 Federal Waste Generator Code: 3
 Generator Code Description: Very Small Quantity Generator

Hazardous Waste Handler Details

Sequence No: 2
 Receive Date: 20081027
 Handler Name: ASSABET MACHINE CORP
 Source Type: Notification
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Waste Code Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Hazardous Waste Code: MA01
Waste Code Description: WASTE OIL

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	78 CHERRY ST
Name:	ASSABET MACHINE CORP	Street 2:	
Date Became Current:	19760301	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	78 CHERRY ST
Name:	JOHN R DOUGHERTY	Street 2:	
Date Became Current:	20041016	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	78 CHERRY ST
Name:	JRD FAMILY TRUST	Street 2:	
Date Became Current:	19760901	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	78 CHERRY ST
Name:	ASSABET MACHINE CORP	Street 2:	
Date Became Current:	19760901	City:	HUDSON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749-0000

Historical Handler Details

Receive Dt: 19860414
Generator Code Description: Very Small Quantity Generator
Handler Name: ASSABET MACHINE CORP

117	1 of 9	W	0.50 / 2,661.61	365.03 / 171	DIGITAL EQUIPMENT CORP 75 REED RD HUDSON MA	RELEASE
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RTN:	2-0012171	Phase:	
Compliance Date:	5/15/1998	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	INDUSTRIAL
Notification Date:	4/1/1998	Site Name (BWSC):	DIGITAL EQUIPMENT CORP
Source:	UNKNOWN	Address (BWSC):	75 REED RD
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	DIGITAL EQUIPMENT CORP	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	75 REED RD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012171		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012171		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: LEAD
Amount: 600
Units: PPM

Chemical: LEAD
Amount: 2130
Units: MG/KG

Action Information (BWSC)

Status: PLANWR **F Name:**
Date: 06-Apr-1998 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 06-Apr-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 01-Apr-1998 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 01-Apr-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 01-Apr-1998 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 06-Apr-1998 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 15-May-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 15-May-1998
OFC Notification: 01-Apr-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 120 DY
Phase:
RAO Class: A2
OHM: Hazardous Material

117	2 of 9	W	0.50 / 2,661.61	365.03 / 171	DIGITAL EQUIPMENT CORP 75 REED RD HUDSON MA	RELEASE
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RTN: 2-0001049
Compliance Date: 6/7/1996
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 7/15/1993
Source: TRANSFORM
Reporting Category: NONE
Site (EEA Data): DIGITAL EQUIPMENT CORP
Rel Add(EEA Data): 75 REED RD
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0001049>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0001049>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: MANUFACT
Site Name (BWSC): DIGITAL EQUIPMENT CORP
Address (BWSC): 75 REED RD
Town (BWSC): HUDSON
Zip Code (BWSC): 01749
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status: ISSUED
Date: 28-Jul-1993
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TCTRNS
Date: 15-Jul-1993
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RAORCD
Date: 07-Jun-1996
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 07-Jun-1996
OFC Notification: 15-Jul-1993
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: NONE
Phase:
RAO Class: A2
OHM: Oil

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RTN: 2-0012116
Compliance Date: 4/24/1998
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 2/24/1998
Source: UNKNOWN
Reporting Category: TWO HR
Site (EEA Data): DIGITAL EQUIPMENT FACILITY
Rel Add(EEA Data): 75 REED RD
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaaonline.eea.state.ma.us/Portal#!/wastesite/2-0012116>
Docs URL: <https://eeaaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012116>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Hazardous Material
Location Type: INDUSTRIAL
Site Name (BWSC): DIGITAL EQUIPMENT FACILITY
Address (BWSC): 75 REED RD
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: ARSENIC
Amount: 400
Units: PPM

Chemical: ARSENIC
Amount: 416
Units: MG/KG

Chemical: PCB
Amount: 210
Units: PPM

Action Information (BWSC)

Status: APORAL
Date: 24-Feb-1998
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 24-Apr-1998
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PLANWR
F Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 10-Mar-1998 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 03-Mar-1998 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 10-Mar-1998 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 24-Feb-1998 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 24-Feb-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 24-Apr-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 04-Mar-1998 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 24-Apr-1998 **OHM:** Hazardous Material
OFC Notification: 24-Feb-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RTN: 2-0013852
Compliance Date: 8/13/2001
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 6/14/2001
Source: PIPE
Reporting Category: TWO HR
Site (EEA Data): INTEL CENTRAL UTILITY BLDG
Rel Add(EEA Data): 75 REED RD
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013852>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013852>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC OIL
Amount: 19
Units: GAL

Action Information (BWSC)

Status: ISSUED
Date: 25-Jul-2001
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: ISSUED
Date: 03-Aug-2001
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 14-Jun-2001
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 14-Jun-2001
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 13-Aug-2001 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 13-Aug-2001 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 13-Aug-2001 **OHM:**
OFC Notification: 14-Jun-2001
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

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RTN: 2-0010471 **Phase:**
Compliance Date: 11/7/1994 **RAO Class:** B1
Compliance Status: RAO **Chemical Type:** Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:** INDUSTRIAL
Notification Date: 9/12/1994 **Site Name (BWSC):** DIGITAL EQUIPMENT CORP
Source: PIPE **Address (BWSC):** 75 REED RD
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): DIGITAL EQUIPMENT CORP **Zip Code (BWSC):** 01749
Rel Add(EEA Data): 75 REED RD **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010471>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010471>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: METHANE, DICHLORODIFLUORO-
Amount: 2000
Units: LBS

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 12-Sep-1994 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FOLOFF **F Name:**
Date: 19-Sep-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 12-Sep-1994 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 07-Nov-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: APORAL **F Name:**
Date: 12-Sep-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 07-Nov-1994 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 07-Nov-1994 **OHM:** Hazardous Material
OFC Notification: 12-Sep-1994
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

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RTN: 2-0014517 **Phase:**
Compliance Date: 12/20/2002 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:**
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL, INDUSTRIAL
Notification Date: 10/16/2002 **Site Name (BWSC):** INTEL CORP BLDG HD2
Source: OTHER **Address (BWSC):** 75 REED RD
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): INTEL CORP BLDG HD2 **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 75 REED RD **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Info URL:		https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0014517				
Docs URL:		https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0014517				
Report Source:		Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)				
<u>Chemical Information (BWSC)</u>						
Chemical:		DIESEL				
Amount:		145				
Units:		GAL				
<u>Action Information (BWSC)</u>						
Status:	RAORCD				F Name:	
Date:	20-Dec-2002				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	22-Oct-2002				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	16-Oct-2002				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORAL				F Name:	
Date:	16-Oct-2002				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	18-Oct-2002				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	12-Dec-2002				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDISS				F Name:	
Date:	16-Oct-2002				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Field NOR Issued					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 16-Oct-2002 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 24-Jan-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDD1A **F Name:**
Date: 16-Oct-2002 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 20-Dec-2002 **OHM:**
OFC Notification: 16-Oct-2002
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

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RTN: 2-0017100 **Phase:**
Compliance Date: 7/21/2008 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 5/21/2008 **Site Name (BWSC):** INTEL CORP.
Source: **Address (BWSC):** 75 REED RD
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): INTEL CORP. **Zip Code (BWSC):**
Rel Add(EEA Data): 75 REED RD **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017100>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017100>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC FLUID
Amount: 38
Units: GAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: REPORT **F Name:**
Date: 21-May-2008 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 21-Jul-2008 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 21-May-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 22-Sep-2008 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 08-Jul-2008 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 21-Jul-2008 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 21-Jul-2008 **OHM:** Oil
OFC Notification: 21-May-2008
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

[117](#) 8 of 9 W 0.50 / 2,661.61 365.03 / 171 FORMER INTEL CO. 75 REED ROAD HUDSON MA RELEASE

RTN: 2-0020485 **Phase:**
Compliance Date: 5/9/2018 **RAO Class:** PN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Compliance Status:	PSNC	Chemical Type:	
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:	COMMERCIAL
Notification Date:	3/27/2018	Site Name (BWSC):	FORMER INTEL CO.
Source:	FUELTANK, GENERATOR	Address (BWSC):	75 REED ROAD
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	FORMER INTEL CO.	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	75 REED ROAD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020485		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020485		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	ISSUED	F Name:	
Date:	05-Apr-2018	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	TSAUD	F Name:	
Date:	04-Oct-2018	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	RECPT	F Name:	
Date:	14-May-2018	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	APORAL	F Name:	
Date:	27-Mar-2018	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	RECPT	F Name:	
Date:	09-May-2018	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	REPORT	F Name:	
Date:	27-Mar-2018	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	PSNRCD	F Name:	
Date:	09-May-2018	L Name:	
Action:	RAO		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID:
Current Status: PSNC
Current St Desc: Permanent Solution with No Conditions
Current Date: 09-May-2018
OFC Notification: 27-Mar-2018
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

Category: TWO HR
Phase:
RAO Class: PN
OHM:

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RTN: 2-0020935
Compliance Date: 8/26/2019
Compliance Status: PSNC
Compl Status Desc: Permanent Solution with No Conditions
Notification Date: 6/27/2019
Source: FUELTANK
Reporting Category: TWO HR
Site (EEA Data): DIESEL FUEL RELEASE
Rel Add(EEA Data): 75 REED ROAD
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020935>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020935>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: PN
Chemical Type:
Location Type: INDUSTRIAL
Site Name (BWSC): DIESEL FUEL RELEASE
Address (BWSC): 75 REED ROAD
Town (BWSC): HUDSON
Zip Code (BWSC):
OFC Town (BWSC): HUDSON

Action Information (BWSC)

Status: TSAUD
Date: 28-Aug-2019
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: APORAL
Date: 27-Jun-2019
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: PSNRCD
Date: 26-Aug-2019
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: RECPT
Date: 26-Aug-2019
Action: RNFE

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Release Notification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:	ISSUED				F Name:	
Date:	26-Jul-2019				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:	REPORT				F Name:	
Date:	27-Jun-2019				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	PSNC	Phase:	
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	26-Aug-2019	OHM:	
OFC Notification:	27-Jun-2019		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Other Rela:			

118	1 of 10	W	0.04 / 230.59	220.08 / 26	HUDSON LIGHT & POWER DEPT - STOW CT 49 Forest St Hudson MA 01749	AST
License No:	OSFM-00740					
Owner Name:	Christopher Monsini, Plant Superintendent					
Owner Addr 2:						
Owner Addr 3:						
Owner State:	MA					

Detail(s)

License Status:	Active	Expire Date:	5/18/2021
License Type:	AST Use Permit	Gross Capacity:	840000
Last Insp Date:	4/12/2016	Unit:	GALLONS

118	2 of 10	W	0.04 / 230.59	220.08 / 26	HUDSON LIGHT & POWER DEPT - STOW CT 49 Forest St Hudson MA 01749	AST
License No:	OSFM-00784					
Owner Name:	Christopher Monsini, Plant Superintendent					
Owner Addr 2:						
Owner Addr 3:						
Owner State:	MA					

Detail(s)

License Status:	Tank Removed	Expire Date:	5/18/2021
License Type:	AST Use Permit	Gross Capacity:	420000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Last Insp Date:	4/12/2016	Unit:	GALLONS
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118	3 of 10	W	0.04 / 230.59	220.08 / 26	TOWN OF HUDSON LIGHT & POWER 49 FOREST AVE HUDSON MA 01749	UST
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Facility ID:	9934	Address (Map):	
Owner ID:	6900	City (Map):	
Facility Status:	CLOSED	Facility Contact:	Kenneth Blood
Facility Name:	TOWN OF HUDSON LIGHT & POWER	Facility Phone:	
Fac Add 1:	49 FOREST AVE	Facility Lat:	42.38747
Facility City:	HUDSON	Facility Long:	-71.55714
Fac Name (Map):			
Facility Type:	Utilities		

Facility Information Details

Con Add 1:	1 Municipal Dr.	Con Phone:	9785689673
Con Add 2:		Con Email:	trippond1@verizon.net
Con City:	Hudson	Update Date:	09-Nov-1998
Con State:	MA	Update By:	
Con Zip:	01749		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Searchable UST Facility Details

Status:	CLOSED	Owner Name:	TOWN OF HUDSON DPW
Last Inspection Dt:		Owner Contact Name:	Kenneth Blood
Next Insp Due Date:		Operator Name:	TOWN OF HUDSON DPW
Last Cert Compl Dt:		Oper Contact Name:	Kenneth Blood
Next Cert Compl Due:			

Owner Infomation

Owner Name:	TOWN OF HUDSON DPW	Contact Name:	Kenneth Blood
Owner Add 1:	1 MUNICIPAL DR	Contact Add 1:	1 Municipal Dr.
Owner Add 2:		Contact Add 2:	
Owner City Town:	HUDSON	Contact City Town:	Hudson
Owner State:	MA	Contact State:	MA
Owner Zip:	01749	Contact Zip:	01749
Organization Type:	Municipal	Contact Phone:	9785689673
FR Type:	Local Government Bond Rating Test	Contact E Mail:	trippond1@verizon.net
Business:	Public agency		
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	08-May-1971	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	20-Oct-1997	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	4000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Pipe Leak Detect:
 Pipe Leak Install:
 Tank Construct:
 Tank Leak Detect:
 Tank Corrosion Type:
 Leak Corrosion Type:
 Note:

This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

118	4 of 10	W	0.04 / 230.59	220.08 / 26	HUDSON LIGHT & POWER 49 FOREST AVE HUDSON MA	RELEASE
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RTN:	2-0010202	Phase:	
Compliance Date:	4/19/1994	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, ROADWAY
Notification Date:	2/22/1994	Site Name (BWSC):	HUDSON LIGHT & POWER
Source:	FUELTANK	Address (BWSC):	49 FOREST AVE
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	HUDSON LIGHT & POWER	Zip Code (BWSC):	01749
Rel Add(EEA Data):	49 FOREST AVE	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010202		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010202		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Chemical: DIESEL FUEL
Amount: 25
Units: GAL

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	02-Mar-1994	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLOFF	F Name:	
Date:	02-Mar-1994	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	APORAL	F Name:	
Date:	22-Feb-1994	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	ISSUED				F Name:	
Date:	22-Feb-1994				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	RAORCD				F Name:	
Date:	19-Apr-1994				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	
Date:	22-Feb-1994				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	
Date:	07-Mar-1994				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Release (BWSC) Detail						
Prim ID:					Category:	TWO HR
Current Status:	RAO				Phase:	
Current St Desc:	Response Action Outcome				RAO Class:	A1
Current Date:	19-Apr-1994				OHM:	Oil
OFC Notification:	22-Feb-1994					
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Other Rela:						

[118](#) 5 of 10 **W** 0.04 / 230.59 220.08 / 26 **HUDSON LIGHT & POWER DEPT
49 FOREST AVE
HUDSON MA 01749** **RCRA SQG**

EPA Handler ID: MAD000887180
Gen Status Universe: Small Quantity Generator
Contact Name: ANTHONY MONTEIRO
Contact Address: 49 FOREST AVE , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-568-8736
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19830823

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19830823
Handler Name: HUDSON LIGHT & POWER DEPT
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:
Type: Private	Street 1: 49 FOREST AVE
Name: TOWN OF HUDSON	Street 2:
Date Became Current: 20041016	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

Owner/Operator Ind: Current Operator	Street No:
Type: Municipal	Street 1: 49 FOREST AVE
Name: HUDSON LIGHT & POWER DEPT	Street 2:
Date Became Current: 19900301	City: HUDSON
Date Ended Current:	State: MA
Phone:	Country: US
Source Type: Notification	Zip Code: 01749

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Site No: 2-0010202	Initial Status Dt: 2/22/1995
Source: FUEL TANK	Official Notifi Dt: 2/22/1994

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Release Type:	RAO			Current Date:	4/19/1994	
Chemical Type:	Oil			ROA Class:	A1	
Category:	TWO HR			Phase:		
ROA Class Desc:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Phase Desc:						
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.					
Status Desc:	Response Action Outcome					
Document URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0010202					
Location Type:	COMMERCIAL,ROADWAY					

Chemicals Information

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Chemical: DIESEL FUEL
Amount: 25
Units: GAL

Response Action

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 03/02/1994
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 04/19/1994
RAO Class: A1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 03/07/1994
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 02/22/1994
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 3497
LSP Name: SIMPSON, DANA A

RAO Detail

Class: A1
Method: 1
GW Category:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Soil Category:		1				
RAO Description:		Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				

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W **0.04 / 230.59** **220.08 / 26** **HUDSON LIGHT & POWER
49 FOREST AVE
HUDSON MA 01749**

SPILLS

RTN: 2-0010202
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 4/19/1994
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: COMMERCIAL,ROADWAY
Category: TWO HR
Initial Status Date: 2/22/1995
Notification Date: 2/22/1994
Source: FUEL TANK
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0010202
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: IRA
Status: APORAL
RAO Class: A1
Date: 3/2/1994
Status Description: Oral Approval of Plan or Action

Action: IRA
Status: APORAL
RAO Class: A1
Date: 2/22/1994
Status Description: Oral Approval of Plan or Action

Action: RNF
Status: REPORT
RAO Class: A1
Date: 3/7/1994
Status Description: Reportable Release under MGL 21E

Action: REL
Status: REPORT
RAO Class: A1
Date: 2/22/1994
Status Description: Reportable Release under MGL 21E

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 3/2/1994
Status Description: Follow-up Office Response

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 2/22/1994

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Correspondence Issued				
Action:		RAO				
Status:		RAORCD				
RAO Class:		A1				
Date:		4/19/1994				
Status Description:		RAO Statement Received (retired)				
<u>Chemical Information</u>						
Chemical:		DIESEL FUEL				
Amount:		25				
Unit:		GAL				
Chemical:		DIESEL FUEL				
Amount:		20				
Unit:		GAL				
<u>LSP Information</u>						
LSP:		3497				
Name:		SIMPSON, DANA A				
<u>Response Action Information</u>						
Response Action Type:		IRA Immediate Response Action				
Status:		APORAL Oral Approval of Plan or Action				
Submittal Date:		03/02/1994				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RAO Response Action Outcome - RAO				
Status:		RAORCD RAO Statement Received				
Submittal Date:		04/19/1994				
RAO Class:		A1				
Activity Use Limitation:						
Response Action Type:		REL Potential Release or Threat of Release				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		02/22/1994				
RAO Class:						
Activity Use Limitation:						
Response Action Type:		RNF Release Notification Form Received				
Status:		REPORT Reportable Release or Threat of Release				
Submittal Date:		03/07/1994				
RAO Class:						
Activity Use Limitation:						
<u>RAO Information</u>						
Class:		A1				
Method:		1				
GW Category:						
Soil Category:		1				
<u>Location Information</u>						
Location:		COMMERCIAL				
Location:		ROADWAY				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Source Information

Source: FUEL TANK

118	8 of 10	W	0.04 / 230.59	220.08 / 26	HUDSON LIGHT & POWER 49 FOREST AVE HUDSON MA	LUST
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RTN:	2-0010202	Phase:	
Compliance Status:	RAO	Location Type(s):	COMMERCIAL, ROADWAY
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	HUDSON LIGHT & POWER
Compliance Date:	4/19/1994	Address (BWSC):	49 FOREST AVE
Notification Date:	2/22/1994	Town (BWSC):	HUDSON
RAO Class:	A1	Zip Code (BWSC):	01749
Chemical Type:	Oil	OFC Town (BWSC):	HUDSON
Reporting Category:	TWO HR	Source(s):	FUEL TANK
Site Name (EEA Data Portal):	HUDSON LIGHT & POWER		
Release Add (EEA Data Portal):	49 FOREST AVE		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010202		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010202		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	19-Apr-1994	OHM:	Oil
OFC Notification:	22-Feb-1994		
Phase Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Other Rela:

Chemical Information

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Chemical: DIESEL FUEL
Amount: 25
Units: GAL

Action Information

Date:	22-Feb-1994	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	APORAL		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Date:	02-Mar-1994	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	APORAL		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Date:	22-Feb-1994				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	19-Apr-1994				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	22-Feb-1994				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	02-Mar-1994				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Date:	07-Mar-1994				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

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W

0.04 /
230.59

220.08 /
26

HUDSON LIGHT AND POWER
49 FOREST AVE
HUDSON MA 01749

PCB

Site ID: MAD000881870

Receive Date:

Generator: Yes

Storer: No

Transporter: No

Disposer: No

Research: No

Smelter: No

Cert Title:

Cert Date: 1990-02-05T00:00:00.000-05:00

Cert Name:

Location Country: US

State Name: MASSACHUSETTS

Region: 01

Mail Address 1: 49 FOREST AVE

Mail Address 2:

Mail Street No:

Mail City: HUDSON

Mail State: MA

Mail Zip: 01749

Mail Country: US

Contact Name: YAKOV D LEVIN

Contact Title:

Contact Phone: 508-568-8736

Contact Phone Ext:

Contact Email:

Owner Name: TOWN OF HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB	
118	10 of 10	W	0.04 / 230.59	220.08 / 26	HUDSON LIGHT & POWER DEPT 49 FOREST AVE HUDSON MA 01749	GEN	
EPA ID No:		MAD000887180					
2nd Name:							
Phone:		978-562-2368					
119	1 of 1	W	0.07 / 390.47	213.12 / 19	KENNETH LAVACHE 44 FOREST AVE HUDSON MA	ASBESTOS PROJECT	
Project ID:		100090679		Project Start Dt:		07/09/2009	
Form Type:		ANF-001		Project End Dt:		07/09/2009	
Project Type:		Renv					
Owner Name:		KENNETH LAVACHE					
Owner address:		44 FOREST AVE.					
DLS Contractor:		ASBESTOS MAN REMOVAL					
DLS Contractor ID:		AC000342					
Site Supervisor:		JOSE VILLALTA					
Site Supervisor ID:		AS061825					
120	1 of 1	W	0.23 / 1,208.65	201.76 / 8	STOCKROOM (OLD) CHERRY ST HUDSON MA 01749	UST	
Facility ID:		9933		Address (Map):			
Owner ID:		6900		City (Map):			
Facility Status:		CLOSED		Facility Contact:			Kenneth Blood
Facility Name:		STOCKROOM (OLD)					
Fac Add 1:		CHERRY ST					
Facility City:		HUDSON					
Fac Name (Map):							
Facility Type:							
Facility Lat:		42.39182					
Facility Long:		-71.55667					
Facility Information Details							
Con Add 1:		1 Municipal Dr.		Con Phone:		9785689673	
Con Add 2:				Con Email:		trippond1@verizon.net	
Con City:		Hudson		Update Date:		21-Oct-1991	
Con State:		MA		Update By:			
Con Zip:		01749					
Note:		This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					
Searchable UST Facility Details							
Status:		CLOSED					
Last Inspection Dt:							
Next Insp Due Date:							
Last Cert Compl Dt:							
Next Cert Compl Due:							
Owner Name:		TOWN OF HUDSON DPW					
Owner Contact Name:		Kenneth Blood					
Operator Name:		TOWN OF HUDSON DPW					
Oper Contact Name:		Kenneth Blood					
Owner Infomation							
Owner Name:		TOWN OF HUDSON DPW		Contact Name:		Kenneth Blood	
Owner Add 1:		1 MUNICIPAL DR		Contact Add 1:		1 Municipal Dr.	
Owner Add 2:				Contact Add 2:			
Owner City Town:		HUDSON		Contact City Town:		Hudson	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Owner State:	MA				Contact State: MA	
Owner Zip:	01749				Contact Zip: 01749	
Organization Type:	Municipal				Contact Phone: 9785689673	
FR Type:	Local Government Bond Rating Test				Contact E Mail: trippond1@verizon.net	
Business:	Public agency					
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					

Tanks Information

Tank ID:	1				Submersible Sump: NO	
Install Date:					Submer Sump Instl:	
Status:	Tank Removed				Turbine Sump: NO	
Status Date:	01-Apr-1989				Turb Sump Sensor: NO	
Use Type:					Intermediate Sump: NO	
Content:	Gasoline				Interm Sump Sensor: NO	
Capacity:	300.00000				Spl Buck Installed:	
No of Compartment:					Spill Bucket Sens: NO	
Latitude:					Overf Prot Instled:	
Longitude:					Overfill Prot Type:	
Auto Line Lk Dtect:						
Pipe Install Date:						
Pipe Type:						
Pipe Construct:						
Pipe Leak Detect:						
Pipe Leak Install:						
Tank Construct:						
Tank Leak Detect:						
Tank Corrosion Type:						
Leak Corrosion Type:						
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).					

[121](#) 1 of 1 **WNW** 0.97 / 5,140.03 223.09 / 29 **LEVINS PROPERTY** **1 HARVEY ST** **HUDSON MA** **RELEASE**

RTN:	2-0015087				Phase:	
Compliance Date:	1/27/2005				RAO Class: A2	
Compliance Status:	RAO				Chemical Type: Oil	
Compl Status Desc:	Response Action Outcome				Location Type:	
Notification Date:	1/20/2004				Site Name (BWSC): LEVINS PROPERTY	
Source:					Address (BWSC): 1 HARVEY ST	
Reporting Category:	120 DY				Town (BWSC): HUDSON	
Site (EEA Data):	LEVINS PROPERTY				Zip Code (BWSC): 01749-0000	
Rel Add(EEA Data):	1 HARVEY ST				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015087					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015087					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Amount:	625
Units:	MG/KG
Chemical:	C9 THRU C12 ALIPHATIC HYDROCARBONS
Amount:	1010
Units:	MG/KG
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Amount:	1920

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Units:		MG/KG				
Chemical:		C9 THRU C18 ALIPHATIC HYDROCARBONS				
Amount:		3720				
Units:		MG/KG				
<u>Action Information (BWSC)</u>						
Status:	TSAUD				F Name:	
Date:	13-Sep-2004				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RAORCD				F Name:	
Date:	27-Jan-2005				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	16-Feb-2005				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	ALSENT				F Name:	
Date:	30-Nov-2004				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Anniversary Letter Sent				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FEEREC				F Name:	
Date:	28-May-2004				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Fee Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	20-Jan-2004				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	ISSUED				F Name:	
Date:	03-Mar-2004				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	STRCVD				F Name:	
Date:	07-Sep-2004				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Status or Interim Report Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FEEREC				F Name:	
Date:	28-Jan-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	25-May-2004				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	27-Jan-2005				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	20-Jan-2004				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	27-Jan-2005	OHM:	Oil
OFC Notification:	20-Jan-2004		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

122	1 of 1	W	0.23 / 1,220.74	202.04 / 8	AFFORDABLE INTERIOR SYSTEMS 54 CHERRY ST HUDSON MA	RELEASE
RTN:	2-0015979	Phase:				
Compliance Date:	1/5/2006	RAO Class:	A1			
Compliance Status:	RAO	Chemical Type:				
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL			
Notification Date:	11/7/2005	Site Name (BWSC):	AFFORDABLE INTERIOR SYSTEMS			
Source:	PIPE	Address (BWSC):	54 CHERRY ST			
Reporting Category:	TWO HR	Town (BWSC):	HUDSON			
Site (EEA Data):	AFFORDABLE INTERIOR SYSTEMS	Zip Code (BWSC):	01749-0000			
Rel Add(EEA Data):	54 CHERRY ST	OFC Town (BWSC):	HUDSON			
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015979					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015979					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC OIL
Amount: 15
Units: GAL

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 05-Jan-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 07-Nov-2005 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 05-Jan-2006 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 07-Nov-2005 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 15-Nov-2005 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: TSAUD **F Name:**
Date: 13-Jan-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 05-Jan-2006
OFC Notification: 07-Nov-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A1
OHM:

123	1 of 1	E	0.14 / 719.53	131.32 / -62	BUDDY DOG ANIMAL HOSPITAL 163 BOSTON POST RD SUDBURY MA	RELEASE
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RTN: 3-0018895
Compliance Date: 11/19/1999
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 10/28/1999
Source: TRANSFORM
Reporting Category: TWO HR
Site (EEA Data): BUDDY DOG ANIMAL HOSPITAL
Rel Add(EEA Data): 163 BOSTON POST RD
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0018895>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0018895>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: COMMERCIAL
Site Name (BWSC): BUDDY DOG ANIMAL HOSPITAL
Address (BWSC): 163 BOSTON POST RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Chemical Information (BWSC)

Chemical: TRANSFORMER OIL
Amount: 105
Units: GAL

Chemical: MODF NON PCB
Amount: 120
Units: GAL

Action Information (BWSC)

Status: RAORCD
Date: 19-Nov-1999
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ISSUED
Date: 06-Dec-1999
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 28-Oct-1999
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 28-Oct-1999 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 19-Nov-1999 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 19-Nov-1999 **OHM:** Oil
OFC Notification: 28-Oct-1999
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

124	1 of 4	W	0.30 / 1,565.34	206.31 / 13	TOWER ST 350 MAIN ST HUDSON MA	LUST
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RTN: 2-0010717 **Phase:** PHASE III
Compliance Status: RAO **Location Type(s):** COMMERCIAL
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** TOWER ST
Compliance Date: 6/8/1999 **Address (BWSC):** 350 MAIN ST
Notification Date: 3/31/1995 **Town (BWSC):** HUDSON
RAO Class: A2 **Zip Code (BWSC):** 01749-0000
Chemical Type: Oil and Hazardous Material **OFC Town (BWSC):** HUDSON
Reporting Category: 72 HR **Source(s):** UST
Site Name (EEA Data Portal): TOWER ST
Release Add (EEA Data Portal): 350 MAIN ST
City/Town (EEA Data Portal): HUDSON
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010717>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010717>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:** PHASE III
Current Status Desc: Response Action Outcome **RAO Class:** A2
Current Date: 08-Jun-1999 **OHM:** Oil and Hazardous Material
OFC Notification: 31-Mar-1995
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical: GASOLINE
Amount: 100
Units: PPMV

Chemical: TPH
Amount: 840
Units: MG/KG

Chemical: ARSENIC
Amount: 33.8
Units: MG/KG

Chemical: VOCS
Amount: 3500
Units: PPM

Action Information

Date: 08-Apr-1996 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 01-Jun-1995 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 31-Mar-1998 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRAN
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 07-Sep-1995 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 11-Sep-1995 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 08-Apr-1996 **First Name:**
Action: TCLASS **Last Name:**
Action Description: Tier Classification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 12-Jun-1998 **First Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	08-Jun-1999				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	08-Jun-1999				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	01-Jun-1995				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	09-Aug-2002				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEECD					
Status Description:	Fee Not Required - Fee Credited					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	06-Apr-1995				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	05-Sep-1995				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	12-Mar-1998				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NOA					
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	31-Mar-1995				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	ASSESS					
Status Description:	IRA Assessment Only					
RAO Class:	A2					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	12-Jun-1995				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FOLOFF					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	31-Mar-1995				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	08-Apr-1996				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	21-Jan-1998				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	SOW					
Status Description:	Scope of Work Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	10-Jun-1999				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	31-Mar-1998				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	FOLCD					
Status Description:						
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	12-Sep-1995				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						
Date:	08-Apr-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIERII					
Status Description:	Tier 2 Classification					
RAO Class:	A2					
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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HUDSON MA 01749-0000

Site No: 2-0010717
Source: UST
Release Type: RAO
Chemical Type: Oil and Hazardous Material
Category: 72 HR
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Phase Desc: Identification, Evaluation, and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan. In Phase III, cleanup options are assessed and a cleanup plan is selected.
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0010717
Location Type: COMMERCIAL

Chemicals Information

Chemical: ARSENIC
Amount: 33.8
Units: MG/KG

Chemical: GASOLINE
Amount: 100
Units: PPMV

Chemical: TPH
Amount: 840
Units: MG/KG

Chemical: VOCS
Amount: 3500
Units: PPM

Response Action

Response Action Type: TCLASS Tier Classification
Status: TIERII Tier 2 Classification
Submittal Date: 04/08/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 04/08/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 03/31/1995
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASII Phase 2
Status: CSRCVD Completion Statement Received
Submittal Date: 06/08/1999
RAO Class:
RAO Description:
Activity and Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Response Action Type: RAO Response Action Outcome - RAO
Status: FEECRD Fee Not Required - Fee Credited - TFS Use Only
Submittal Date: 08/09/2002
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/01/1995
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: PHASEI Phase 1
Status: CSRCVD Completion Statement Received
Submittal Date: 04/08/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: N/A
LSP Name: CARDINALE, DOMENICK L

LSP No: 4813
LSP Name: SHEEHAN, KEVIN C

RAO Detail

Class: A2
Method: 2
GW Category: 2
Soil Category: 1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Tier Classification Detail

Imminent Hazard: NO
Zone2: NO
Numerical Rank Scoresheet 146
Totals:
Numerical Rank Scoresheet II: 35
Numerical Rank Scoresheet III: 71
Numerical Rank Scoresheet IV: 20
Numerical Rank Scoresheet V: 20
Numerical Rank Scoresheet VI: 0

124	3 of 4	W	0.30 / 1,565.34	206.31 / 13	QUALITY GAS 350 MAIN STREET HUDSON MA	RELEASE
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RTN: 2-0019282
Compliance Date: 12/3/2014
Compliance Status: PSNC
Compl Status Desc: Permanent Solution with No Conditions
Notification Date: 8/13/2014
Source: HOSE, OHMDELIVER, VEHICLE
Reporting Category: TWO HR
Site (EEA Data): QUALITY GAS
Rel Add(EEA Data): 350 MAIN STREET
Town (EEA Data): HUDSON

Phase:
RAO Class: PN
Chemical Type: Oil
Location Type: COMMERCIAL
Site Name (BWSC): QUALITY GAS
Address (BWSC): 350 MAIN STREET
Town (BWSC): HUDSON
Zip Code (BWSC):
OFC Town (BWSC): HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0019282>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0019282>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 10
Units: GAL

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 13-Aug-2014 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: CSRCVD **F Name:**
Date: 14-Oct-2014 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: RECPT **F Name:**
Date: 14-Oct-2014 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD **F Name:**
Date: 03-Dec-2014 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: REPORT **F Name:**
Date: 13-Aug-2014 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current St Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 03-Dec-2014 **OHM:** Oil
OFC Notification: 13-Aug-2014
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
124	4 of 4	W	0.30 / 1,565.34	206.31 / 13	TOWER ST 350 MAIN ST HUDSON MA	RELEASE

RTN: 2-0010717
Compliance Date: 6/8/1999
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/31/1995
Source: UST
Reporting Category: 72 HR
Site (EEA Data): TOWER ST
Rel Add(EEA Data): 350 MAIN ST
Town (EEA Data): HUDSON
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010717>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010717>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 100
Units: PPMV

Chemical: ARSENIC
Amount: 33.8
Units: MG/KG

Chemical: VOCS
Amount: 3500
Units: PPM

Chemical: TPH
Amount: 840
Units: MG/KG

Action Information (BWSC)

Status: SOW
Date: 21-Jan-1998
Action: PHASII
Action Description: Phase 2
Status Description: Scope of Work Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RAORCD
Date: 08-Jun-1999
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RECPT
Date: 08-Apr-1996
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	NAFNVD				F Name:	
Date:	12-Jun-1998				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	12-Sep-1995				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	06-Apr-1995				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	08-Apr-1996				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	31-Mar-1995				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FLDRAN				F Name:	
Date:	31-Mar-1998				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLCD				F Name:	
Date:	31-Mar-1998				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ASSESS				F Name:	
Date:	31-Mar-1995				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	IRA Assessment Only					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FOLOFF				F Name:	
Date:	12-Jun-1995				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLOFF				F Name:	
Date:	11-Sep-1995				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FEEREC				F Name:	
Date:	10-Jun-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TIERII				F Name:	
Date:	08-Apr-1996				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FEECD				F Name:	
Date:	09-Aug-2002				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Not Required - Fee Credited					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLOFF				F Name:	
Date:	05-Sep-1995				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	NOA				F Name:	
Date:	12-Mar-1998				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	01-Jun-1995				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	08-Jun-1999				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	FOLOFF				F Name:	
Date:	07-Sep-1995				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD			F Name:		
Date:	08-Apr-1996			L Name:		
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	PLANWR			F Name:		
Date:	01-Jun-1995			L Name:		
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	PHASE III
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	08-Jun-1999	OHM:	Oil and Hazardous Material
OFC Notification:	31-Mar-1995		
Phase Desc:	Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

125	1 of 1	W	0.25 / 1,323.27	295.79 / 102	ROADWAY RELEASE 8 STEVENS ROAD HUDSON MA	RELEASE
RTN:	2-0021281	Phase:				
Compliance Date:	8/18/2020	RAO Class:	PN			
Compliance Status:	PSNC	Chemical Type:				
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:				
Notification Date:	7/13/2020	Site Name (BWSC):				
Source:		Address (BWSC):				
Reporting Category:	TWO HR	Town (BWSC):				
Site (EEA Data):	ROADWAY RELEASE	Zip Code (BWSC):				
Rel Add(EEA Data):	8 STEVENS ROAD	OFC Town (BWSC):				
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	Permanent Solution with No Conditions					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0021281					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0021281					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal)					

126	1 of 2	W	0.38 / 1,993.05	218.04 / 24	CARLTON ST 30 TOWER ST HUDSON MA	RELEASE
RTN:	2-0013390	Phase:				
Compliance Date:	7/25/2000	RAO Class:				
Compliance Status:	DPS	Chemical Type:	Oil and Hazardous Material			
Compl Status Desc:	Downgradient Property Status	Location Type:				
Notification Date:	7/25/2000	Site Name (BWSC):	CARLTON ST			
Source:		Address (BWSC):	30 TOWER ST			
Reporting Category:	120 DY	Town (BWSC):	HUDSON			
Site (EEA Data):	CARLTON ST	Zip Code (BWSC):	01749-0000			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Rel Add(EEA Data):	30 TOWER ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:						
Info URL:	https://eeonline.eea.state.ma.us/Portal#!/wastesite/2-0013390					
Docs URL:	https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013390					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical:	VINYL CHLORIDE
Amount:	123
Units:	UG/L
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Amount:	63390
Units:	UG/L
Chemical:	1-PROPENE, 1,3-DICHLORO-, (Z)-
Amount:	9.54
Units:	UG/L
Chemical:	C19 THRU C36 ALIPHATIC HYDROCARBONS
Amount:	47800
Units:	UG/L
Chemical:	C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount:	167000
Units:	UG/L

Action Information (BWSC)

Status:	SIGACC	F Name:	
Date:	01-Feb-2018	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			
Status:	RECPT	F Name:	
Date:	25-Jul-2000	L Name:	
Action:	DPS		
Action Description:	Downgradient Property Status		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:			
RAO Class Desc:			
Status:	INTLET	F Name:	
Date:	04-Dec-2017	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			
Status:	INTLET	F Name:	
Date:	15-Sep-2017	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			
Status:	PRPMTG	F Name:	
Date:	18-Jan-2018	L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Meeting with PRP or PRP Representative				
RAO Class:						
RAO Class Desc:						
Status:	SIGACC				F Name:	
Date:	13-Oct-2017				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	08-Sep-2000				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	25-Jul-2000				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	25-Jul-2000				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						

Release (BWSC) Detail

Prim ID:				Category:	120 DY	
Current Status:	DPS			Phase:		
Current St Desc:	Downgradient Property Status			RAO Class:		
Current Date:	25-Jul-2000			OHM:	Oil and Hazardous Material	
OFC Notification:	25-Jul-2000					
Phase Desc:						
RAO Class Desc:						
Other Rela:						

126	2 of 2	W	0.38 / 1,993.05	218.04 / 24	N E SMALL BUSINESS INVEST CORP 30 TOWER ST HUDSON MA	RELEASE
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RTN:	2-0010326			Phase:		
Compliance Date:	7/25/2000			RAO Class:	A2	
Compliance Status:	RAO			Chemical Type:	Oil and Hazardous Material	
Compl Status Desc:	Response Action Outcome			Location Type:		
Notification Date:	5/4/1994			Site Name (BWSC):	N E SMALL BUSINESS INVEST CORP	
Source:				Address (BWSC):	30 TOWER ST	
Reporting Category:	120 DY			Town (BWSC):	HUDSON	
Site (EEA Data):	N E SMALL BUSINESS INVEST CORP			Zip Code (BWSC):	01749	
Rel Add(EEA Data):	30 TOWER ST			OFC Town (BWSC):	HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Info URL:		https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010326				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010326
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: TPH
Amount: 141
Units: MG/L

Chemical: (1,1'-BIPHENYL)-4,4'DIAMINE,3,3'DICHLORO-
Amount: 1070
Units: UG/G

Chemical: TPH
Amount: 12200
Units: MG/KG

Action Information (BWSC)

Status: SOW **F Name:**
Date: 14-Dec-1999 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Scope of Work Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ACTAUD **F Name:**
Date: 30-Apr-2002 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Level III - Comprehensive Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 03-May-1995 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 01-Mar-2000 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 04-May-1994 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: T2EXT **F Name:**
Date: 03-May-2000 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Extension (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 25-Jul-2000 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ACTAUD **F Name:**
Date: 30-Apr-2002 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Level III - Comprehensive Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 20-Mar-2000 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDD1U **F Name:**
Date: 08-Aug-2014 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NAFVIO **F Name:**
Date: 30-Apr-2002 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 03-May-1995 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ACTAUD **F Name:**
Date: 30-Apr-2002 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Level III - Comprehensive Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 04-May-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NOA **F Name:**
Date: 17-Apr-2002 **L Name:**
Action: AUDCOM
Action Description:

Status Description:

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 21-Jun-1994 **L Name:**
Action: NOR

Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ACTAUD **F Name:**
Date: 30-Apr-2002 **L Name:**
Action: PHASEI

Action Description: Phase 1
Status Description: Level III - Comprehensive Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 20-Mar-2000 **L Name:**
Action: PHSIII

Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 25-Jul-2000 **L Name:**
Action: RAO

Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 03-Nov-1999 **L Name:**
Action: RLFA

Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TIERII **F Name:**
Date: 03-May-1995 **L Name:**
Action: TCLASS

Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 25-Jul-2000 **OHM:** Oil and Hazardous Material
OFC Notification: 04-May-1994
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RTN:	2-0013121				Phase:	
Compliance Date:	3/15/2000				RAO Class:	A1
Compliance Status:	RAO				Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome				Location Type:	COMMERCIAL, ROADWAY
Notification Date:	1/8/2000				Site Name (BWSC):	PARADISE GYM
Source:	VEHICLE				Address (BWSC):	312 MAIN ST
Reporting Category:	TWO HR				Town (BWSC):	HUDSON
Site (EEA Data):	PARADISE GYM				Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	312 MAIN ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Info URL:		https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013121				
Docs URL:		https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013121				
Report Source:		Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)				

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 30
Units: GAL

Action Information (BWSC)

Status: RAORCD
Date: 15-Mar-2000
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 08-Jan-2000
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 07-Mar-2000
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 08-Jan-2000
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: ISSUED
Date: 20-Jan-2000
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 15-Mar-2000
OFC Notification: 08-Jan-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Category: TWO HR
Phase:
RAO Class: A1
OHM: Oil

Other Rela:

127	2 of 2	W	0.30 / 1,588.81	204.73 / 11	MAIN AND TOWER PARTNERS LLC 312 MAIN ST HUDSON MA	RELEASE
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RTN: 2-0017090
Compliance Date: 5/15/2009
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 5/15/2008
Source:
Reporting Category: 120 DY
Site (EEA Data): MAIN AND TOWER PARTNERS LLC
Rel Add(EEA Data): 312 MAIN ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017090>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017090>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: B1
Chemical Type: Hazardous Material
Location Type:
Site Name (BWSC): MAIN AND TOWER PARTNERS LLC
Address (BWSC): 312 MAIN ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: VINYL CHLORIDE
Amount: 4
Units: UG/L

Chemical: TRICHLOROETHYLENE
Amount: 41.4
Units: UG/L

Action Information (BWSC)

Status: INVSUB
Date: 18-Sep-2008
Action: DPS
Action Description: Downgradient Property Status
Status Description: Submittal Determined to be Invalid by DEP
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

F Name:
L Name:

Status: RECPT
Date: 30-Jun-2008
Action: DPS
Action Description: Downgradient Property Status
Status Description: Transmittal, Notice, or Notification Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

F Name:
L Name:

Status: RAORCD **F Name:**
Date: 15-May-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FLDD1U **F Name:**
Date: 08-Aug-2014 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 15-May-2008 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FEEREC **F Name:**
Date: 21-May-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: PRPMTG **F Name:**
Date: 14-Dec-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Meeting with PRP or PRP Representative
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: NAFNON **F Name:**
Date: 18-Sep-2008 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: TSAUD **F Name:**
Date: 06-Aug-2008 **L Name:**
Action: DPS
Action Description: Downgradient Property Status
Status Description: Level I - Technical Screen Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FEEREC **F Name:**
Date: 30-Jun-2008 **L Name:**
Action: DPS
Action Description: Downgradient Property Status
Status Description: Fee Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 12-Jun-2008 **L Name:**
Action: NOR
Action Description: Notice of Responsibility

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Correspondence Issued				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	REPORT				F Name:	
Date:	15-May-2008				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	TSAUD				F Name:	
Date:	21-Jul-2009				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	B1
Current Date:	15-May-2009	OHM:	Hazardous Material
OFC Notification:	15-May-2008		
Phase Desc:			
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Other Rela:			

[128](#) 1 of 7 **WNW** 0.48 / 2,536.97 251.59 / 58 **CONTAM. SOIL** **HIST LUST**
34 TOWER STREET
HUDSON MA

Spill ID:	C90-0012	Repo Units Spilled:	-----
Site ID:	0000	Act. Qty Spilled:	-----
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	---	Spill Date:	
Incident:	TANK REMOVAL	Spill Time:	
Other Incident:		Rport Date:	
Source:	U.S.T.	Rport Time:	
Other Source:		Notifier:	PIECEWIZC/HUDSON FD
Petro/Hazardous:	PETROLEUM	Notifier Phone:	
Virgin/Waste:	WASTE	First IR Form:	
Material:	WASTE OIL	Staff Lead:	JOHNSTON, D
Other Material:		Category:	
Enviro Impact:	SOIL	Days For Case:	1
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	NONE	Referral Divisions:	NO
Reported Qty Spilled:	UNKNOWN		
CAS # for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:			

[128](#) 2 of 7 **WNW** 0.48 / 2,536.97 251.59 / 58 **LAPOINTE MACHINE TOOL CO** **LUST**
FMR
34 TOWER ST
HUDSON MA

RTN:	2-0013687	Phase:	
Compliance Status:	RAO	Location Type(s):	INDUSTRIAL
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	LAPOINTE MACHINE TOOL CO FMR
Compliance Date:	2/20/2002	Address (BWSC):	34 TOWER ST

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Notification Date:	2/13/2001				Town (BWSC): HUDSON	
RAO Class:	A2				Zip Code (BWSC): 01749-0000	
Chemical Type:	Oil				OFC Town (BWSC): HUDSON	
Reporting Category:	72 HR				Source(s): UST	
Site Name (EEA Data Portal):	LAPOINTE MACHINE TOOL CO FMR					
Release Add (EEA Data Portal):	34 TOWER ST					
City/Town (EEA Data Portal):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013687					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013687					
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	20-Feb-2002	OHM:	Oil
OFC Notification:	13-Feb-2001		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

Chemical Information

Chemical:	#2 FUEL OIL
Amount:	179
Units:	PPMV

Action Information

Date:	19-Apr-2001	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	PLANWR		
Status Description:	Written Plan Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	13-Feb-2001	First Name:	
Action:	REL	Last Name:	
Action Description:	Release Disposition		
Status:	REPORT		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	20-Feb-2002	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	RAORCD		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	17-Jan-2002	First Name:	
Action:	NOR	Last Name:	
Action Description:	Notice of Responsibility		
Status:	ALSENT		
Status Description:	Anniversary Letter Sent		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	13-Feb-2001	First Name:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	19-Apr-2001				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	21-Mar-2001				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	21-Feb-2002				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

[128](#) 3 of 7 **WNW** **0.48 / 2,536.97** **251.59 / 58** **L AND S INDUSTRIAL PARK
34 TOWER ST
HUDSON MA** **LUST**

RTN: 2-0000735 **Phase:**

Compliance Status: WCSPRM **Location Type(s):** INDUSTRIAL

Compl Status Desc: Waiver Completion Statement **Site Name (BWSC):** L AND S INDUSTRIAL PARK

Compliance Date: 6/21/1995 **Address (BWSC):** 34 TOWER ST

Notification Date: 4/15/1990 **Town (BWSC):** HUDSON

RAO Class: **Zip Code (BWSC):** 01749

Chemical Type: Oil **OFC Town (BWSC):** HUDSON

Reporting Category: NONE **Source(s):** UST

Site Name (EEA Data Portal): L AND S INDUSTRIAL PARK

Release Add (EEA Data Portal): 34 TOWER ST

City/Town (EEA Data Portal): HUDSON

Phase Desc:

RAO Class Desc:

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000735>

Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000735>

Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:

Current Status: WCSPRM **Category:** NONE

Current Status Desc: Waiver Completion Statement **Phase:**

Current Date: 21-Jun-1995 **RAO Class:**

OFC Notification: 15-Apr-1990 **OHM:** Oil

Phase Desc:

RAO Class Desc:

Other Rela:

Chemical Information

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical:		WASTE OIL				
Amount:						
Units:						
<u>Action Information</u>						
Date:	17-Jul-1990				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	WAVSIG					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	21-Jun-1995				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	WCSPRM					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	17-Jul-1990				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Date:	15-Apr-1990				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:						
RAO Class Desc:						
Date:	08-Aug-2014				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDD1U					
Status Description:	Initial Compliance Field Response - Unannounced					
RAO Class:						
RAO Class Desc:						
Date:	22-Jan-1990				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	WAVREC					
Status Description:						
RAO Class:						
RAO Class Desc:						
Date:	20-Aug-1990				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	WAVACC					
Status Description:						
RAO Class:						
RAO Class Desc:						

128	4 of 7	WNW	0.48 / 2,536.97	251.59 / 58	LAPOINTE MACHINE TOOL CO FMR 34 TOWER ST HUDSON MA 01749-0000	LST
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site No:	2-0013687	Initial Status Dt:	2/13/2002
Source:	UST	Official Notifi Dt:	2/13/2001
Release Type:	RAO	Current Date:	2/20/2002
Chemical Type:	Oil	ROA Class:	A2
Category:	72 HR	Phase:	
ROA Class Desc:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.		
Phase Desc:			
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.		
Status Desc:	Response Action Outcome		
Document URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0013687		
Location Type:	INDUSTRIAL		

Chemicals Information

Chemical:	#2 FUEL OIL
Amount:	179
Units:	PPMV

Response Action

Response Action Type:	RNF Release Notification Form Received
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	04/19/2001
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	RAO Response Action Outcome - RAO
Status:	FEEREC Fee Received - TFS Use Only
Submittal Date:	02/21/2002
RAO Class:	A2
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation:	NONE

Response Action Type:	REL Potential Release or Threat of Release
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	02/13/2001
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	IRA Immediate Response Action
Status:	PLANWR Written Plan Received
Submittal Date:	04/19/2001
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Licensed Site Professional

LSP No:	6176
LSP Name:	CAMPBELL, GEORGE E
LSP No:	1500
LSP Name:	PIERCE, DOUGLAS S

RAO Detail

Class:	A2
Method:	1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
GW Category:	2					
Soil Category:	1					
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.					

128	5 of 7	WNW	0.48 / 2,536.97	251.59 / 58	L & S INDUSTRIAL PARK 34 TOWER ST HUDSON MA 1749	LST
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Site No: 2-0000735
Source: UST
Release Type: WCSPRM
Chemical Type: Oil
Category: NONE
RAO Class Desc:
Phase Desc:
Release Type Desc: A Waiver Completion Statement has been submitted to DEP.
Status Desc: Waiver Completion Statement
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0000735>
Location Type: INDUSTRIAL

Initial Status Dt: 8/20/1995
Official Notifi Dt: 4/15/1990
Current Date: 6/21/1995
ROA Class:
Phase:

Chemicals Information

Chemical: WASTE OIL
Amount:
Units:

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 04/15/1990
RAO Class:
RAO Description:
Activity and Use Limitation:

128	6 of 7	WNW	0.48 / 2,536.97	251.59 / 58	LAPOINTE MACHINE TOOL CO FMR 34 TOWER ST HUDSON MA	RELEASE
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RTN: 2-0013687
Compliance Date: 2/20/2002
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 2/13/2001
Source: UST
Reporting Category: 72 HR
Site (EEA Data): LAPOINTE MACHINE TOOL CO FMR
Rel Add(EEA Data): 34 TOWER ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeonline.eea.state.ma.us/Portal#!wastesite/2-0013687>
Docs URL: <https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013687>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: INDUSTRIAL
Site Name (BWSC): LAPOINTE MACHINE TOOL CO FMR
Address (BWSC): 34 TOWER ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 179
Units: PPMV

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: ALSENT **F Name:**
Date: 17-Jan-2002 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 19-Apr-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 13-Feb-2001 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 19-Apr-2001 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 13-Feb-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 21-Feb-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 20-Feb-2002 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 21-Mar-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 20-Feb-2002
OFC Notification: 13-Feb-2001
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 72 HR
Phase:
RAO Class: A2
OHM: Oil

128	7 of 7	WNW	0.48 / 2,536.97	251.59 / 58	L AND S INDUSTRIAL PARK 34 TOWER ST HUDSON MA	RELEASE
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RTN: 2-0000735
Compliance Date: 6/21/1995
Compliance Status: WCSPRM
Compl Status Desc: Waiver Completion Statement
Notification Date: 4/15/1990
Source: UST
Reporting Category: NONE
Site (EEA Data): L AND S INDUSTRIAL PARK
Rel Add(EEA Data): 34 TOWER ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000735>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000735>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class:
Chemical Type: Oil
Location Type: INDUSTRIAL
Site Name (BWSC): L AND S INDUSTRIAL PARK
Address (BWSC): 34 TOWER ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status: WCSPRM
Date: 21-Jun-1995
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: TCTRNS
Date: 15-Apr-1990
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: WAVSIG
Date: 17-Jul-1990
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: WAVACC
Date: 20-Aug-1990
Action: TREGS

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description:
 Status Description:
 RAO Class:
 RAO Class Desc:

Status: WAVREC F Name:
 Date: 22-Jan-1990 L Name:
 Action: TREGS

Action Description:
 Status Description:
 RAO Class:
 RAO Class Desc:

Status: FLDD1U F Name:
 Date: 08-Aug-2014 L Name:
 Action: RLFA

Action Description: Site Visit or Office Follow-up
 Status Description: Initial Compliance Field Response - Unannounced
 RAO Class:
 RAO Class Desc:

Status: ISSUED F Name:
 Date: 17-Jul-1990 L Name:
 Action: NOR

Action Description: Notice of Responsibility
 Status Description: Correspondence Issued
 RAO Class:
 RAO Class Desc:

Release (BWSC) Detail

Prim ID: Category: NONE
 Current Status: WCSPRM Phase:
 Current St Desc: Waiver Completion Statement RAO Class:
 Current Date: 21-Jun-1995 OHM: Oil
 OFC Notification: 15-Apr-1990
 Phase Desc:
 RAO Class Desc:
 Other Rela:

129	1 of 6	E	0.23 / 1,195.98	133.36 / -60	LINDE GASES OF NEW ENGLAND INC 141 BOSTON POST RD SUDBURY MA 01776	UST
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Facility ID: 20615 Address (Map):
 Owner ID: 3889 City (Map):
 Facility Status: CLOSED Facility Contact:
 Facility Name: LINDE GASES OF NEW ENGLAND INC Facility Phone:
 Fac Add 1: 141 BOSTON POST RD Facility Lat: 42.36179
 Facility City: SUDBURY Facility Long: -71.39474
 Fac Name (Map):
 Facility Type: Manufacturing

Facility Information Details

Con Add 1: Con Phone:
 Con Add 2: Con Email:
 Con City: Update Date: 06-Jan-1992
 Con State: Update By:
 Con Zip:

Note: This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

Searchable UST Facility Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status:	CLOSED	Owner Name:	LINDE GASES OF NEW ENGLAND INC
Last Inspection Dt:		Owner Contact Name:	
Next Insp Due Date:		Operator Name:	LINDE GASES OF NEW ENGLAND INC
Last Cert Compl Dt:		Oper Contact Name:	
Next Cert Compl Due:			

Owner Infomation

Owner Name:	LINDE GASES OF NEW ENGLAND INC	Contact Name:	
Owner Add 1:	39 OLD RIDGEBURY RD	Contact Add 1:	
Owner Add 2:		Contact Add 2:	
Owner City Town:	DANBURY	Contact City Town:	
Owner State:	CT	Contact State:	
Owner Zip:	06817	Contact Zip:	
Organization Type:	Private	Contact Phone:	
FR Type:		Contact E Mail:	
Business:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tanks Information

Tank ID:	1	Submersible Sump:	NO
Install Date:	21-Dec-1956	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Dec-1988	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Gasoline	Interm Sump Sensor:	NO
Capacity:	4000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Tank ID:	2	Submersible Sump:	NO
Install Date:	21-Dec-1956	Submer Sump Instl:	
Status:	Tank Removed	Turbine Sump:	NO
Status Date:	01-Dec-1988	Turb Sump Sensor:	NO
Use Type:		Intermediate Sump:	NO
Content:	Diesel	Interm Sump Sensor:	NO
Capacity:	5000.00000	Spl Buck Installed:	
No of Compartment:		Spill Bucket Sens:	NO
Latitude:		Overf Prot Instled:	
Longitude:		Overfill Prot Type:	
Auto Line Lk Dtect:			
Pipe Install Date:			
Pipe Type:			
Pipe Construct:			
Pipe Leak Detect:			
Pipe Leak Install:			
Tank Construct:			
Tank Leak Detect:			
Tank Corrosion Type:			
Leak Corrosion Type:			
Note:	This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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request).

Tank ID: 3
Install Date: 22-Dec-1971
Status: Tank Removed
Status Date: 04-Apr-1988
Use Type:
Content: Waste Oil
Capacity:
No of Compartment:
Latitude:
Longitude:
Auto Line Lk Dtect:
Pipe Install Date:
Pipe Type:
Pipe Construct:
Pipe Leak Detect:
Pipe Leak Install:
Tank Construct:
Tank Leak Detect:
Tank Corrosion Type:
Leak Corrosion Type:
Note:

Submersible Sump: NO
Submer Sump Instl:
Turbine Sump: NO
Turb Sump Sensor: NO
Intermediate Sump: NO
Interm Sump Sensor: NO
Spl Buck Installed:
Spill Bucket Sens: NO
Overf Prot Instled:
Overfill Prot Type:

This information is from the MassDEP Underground Storage Tank (UST) Program received on Nov 25, 2019 (FOIA request).

[129](#) 2 of 6 E 0.23 / 1,195.98 133.36 / -60 141 BOSTON POST RD SUDBURY MA HIST LUST

Spill ID: N88-0430
Site ID: 3-2545
Case Closed: YES
LUST: NO
Incident: TANK REMOVAL
Other Incident:
Source: U.S.T.
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: WASTE
Material: WASTE OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: _____
Reported Qty Spilled: _____ NONE
CAS # for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: _____
Act. Qty Spilled: NONE
Act. Units Spilled: _____
Spill Date:
Spill Time: 11:30AM
Rport Date:
Rport Time: 02:00PM
Notifier: D RENNER/UNION CARBIDE
Notifier Phone:
First IR Form:
Staff Lead: BRADLEY, R
Category:
Days For Case: 0
Report pre by:
Contractor: NOT USED
Referral Divisions: SA

[129](#) 3 of 6 E 0.23 / 1,195.98 133.36 / -60 UNION CARBIDE LINDE DIV 141 BOSTON POST RD SUDBURY MA LUST

RTN: 3-0002545
Compliance Status: WCSPRM
Compl Status Desc: Waiver Completion Statement
Compliance Date: 3/11/1996
Notification Date: 8/15/1989
RAO Class:
Chemical Type: Oil
Reporting Category: NONE
Site Name (EEA Data Portal): UNION CARBIDE LINDE DIV
Release Add (EEA Data Portal): 141 BOSTON POST RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:

Phase:
Location Type(s): FORMER, MANUFACT
Site Name (BWSC): UNION CARBIDE LINDE DIV
Address (BWSC): 141 BOSTON POST RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776
OFC Town (BWSC): SUDBURY
Source(s): LAGOON, UNKNOWN, UST

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002545
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002545
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	WCSPRM	Phase:	
Current Status Desc:	Waiver Completion Statement	RAO Class:	
Current Date:	11-Mar-1996	OHM:	Oil
OFC Notification:	15-Aug-1989		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

Chemical Information

Chemical: WASTE OIL
Amount:
Units:

Action Information

Date:	15-Aug-1989	First Name:	
Action:	NOR	Last Name:	
Action Description:	Notice of Responsibility		
Status:	ISSUED		
Status Description:	Correspondence Issued		
RAO Class:			
RAO Class Desc:			

Date:	04-Feb-1994	First Name:	
Action:	TREGS	Last Name:	
Action Description:			
Status:	WAVACC		
Status Description:			
RAO Class:			
RAO Class Desc:			

Date:	15-Aug-1989	First Name:	
Action:	REL	Last Name:	
Action Description:	Release Disposition		
Status:	TCTRNS		
Status Description:	Valid Transition Site (Retired)		
RAO Class:			
RAO Class Desc:			

Date:	11-Mar-1996	First Name:	
Action:	TREGS	Last Name:	
Action Description:			
Status:	WCSPRM		
Status Description:			
RAO Class:			
RAO Class Desc:			

Date:	18-Jun-1993	First Name:	
Action:	TREGS	Last Name:	
Action Description:			
Status:	WAVREC		
Status Description:			
RAO Class:			
RAO Class Desc:			

Date:	21-Dec-1993	First Name:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: TREGS Last Name:
 Action Description:
 Status: WAVSIG
 Status Description:
 RAO Class:
 RAO Class Desc:

129	4 of 6	E	0.23 / 1,195.98	133.36 / -60	PRAXAIR INC 141 BOSTON POST RD SUDBURY MA 01776	RCRA NON GEN
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EPA Handler ID: MAD001018357
 Gen Status Universe: No Report
 Contact Name: A-C MORGELLO
 Contact Address: 141 BOSTON POST RD , , SUDBURY , MA, 01776 , US
 Contact Phone No and Ext: 508-443-8841
 Contact Email:
 Contact Country: US
 County Name: MIDDLESEX
 EPA Region: 01
 Land Type: Private
 Receive Date: 19800724

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated May, 2020.

Evaluation Details

Evaluation Start Date: 19960319
 Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
 Violation Short Description:
 Return to Compliance Date:
 Evaluation Agency: State

Handler Summary

Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility: No
 Onsite Burner Exemption: No
 Furnace Exemption: No
 Underground Injection Activity: No
 Commercial TSD: No
 Used Oil Transporter: No
 Used Oil Transfer Facility: No
 Used Oil Processor: No
 Used Oil Refiner: No
 Used Oil Burner: No
 Used Oil Market Burner: No
 Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
 Receive Date: 19800724
 Handler Name: PRAXAIR INC
 Source Type: Notification
 Federal Waste Generator Code: N
 Generator Code Description: Not a Generator, Verified

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Details

Hazardous Waste Code: F001
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: U002
Waste Code Description: 2-PROPANONE (I) (OR) ACETONE (I)

Hazardous Waste Code: U226
Waste Code Description: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	141 BOSTON POST RD
Name: UNION CARBIDE CORPORATION	Street 2:	
Date Became Current: 20041016	City:	SUDBURY
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01776

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	141 BOSTON POST RD
Name: PRAXAIR INC	Street 2:	
Date Became Current: 19930617	City:	SUDBURY
Date Ended Current: 19960322	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01776

129	5 of 6	E	0.23 / 1,195.98	133.36 / -60	UNION CARBIDE LINDE DIV 141 BOSTON POST RD SUDBURY MA 1776	LST
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Site No: 3-0002545	Initial Status Dt: 2/4/1999
Source: LAGOON,UNKNOWN,UST	Official Notifi Dt: 8/15/1989
Release Type: WCSPRM	Current Date: 3/11/1996
Chemical Type: Oil	ROA Class:
Category: NONE	Phase:
ROA Class Desc:	
Phase Desc:	
Release Type Desc: A Waiver Completion Statement has been submitted to DEP.	
Status Desc: Waiver Completion Statement	
Document URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0002545	
Location Type: FORMER,MANUFACT	

Chemicals Information

Chemical: WASTE OIL
Amount:
Units:

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 08/15/1989
RAO Class:
RAO Description:
Activity and Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
129	6 of 6	E	0.23 / 1,195.98	133.36 / -60	UNION CARBIDE LINDE DIV 141 BOSTON POST RD SUDBURY MA	RELEASE

RTN: 3-0002545 **Phase:**
Compliance Date: 3/11/1996 **RAO Class:**
Compliance Status: WCSPRM **Chemical Type:** Oil
Compl Status Desc: Waiver Completion Statement **Location Type:** FORMER, MANUFACT
Notification Date: 8/15/1989 **Site Name (BWSC):** UNION CARBIDE LINDE DIV
Source: LAGOON, UNKNOWN, UST **Address (BWSC):** 141 BOSTON POST RD
Reporting Category: NONE **Town (BWSC):** SUDBURY
Site (EEA Data): UNION CARBIDE LINDE DIV **Zip Code (BWSC):** 01776
Rel Add(EEA Data): 141 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0002545>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0002545>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status: TCTRNS **F Name:**
Date: 15-Aug-1989 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

Status: WAVACC **F Name:**
Date: 04-Feb-1994 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: WAVSIG **F Name:**
Date: 21-Dec-1993 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 15-Aug-1989 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: WAVREC **F Name:**
Date: 18-Jun-1993 **L Name:**
Action: TREGS
Action Description:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description:

RAO Class:

RAO Class Desc:

Status:	WCSPRM	F Name:	
Date:	11-Mar-1996	L Name:	
Action:	TREGS		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	WCSPRM	Phase:	
Current St Desc:	Waiver Completion Statement	RAO Class:	
Current Date:	11-Mar-1996	OHM:	Oil
OFC Notification:	15-Aug-1989		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

130	1 of 1	W	0.32 / 1,694.23	205.68 / 12	RESIDENTIAL PROPERTY 292 MAIN STREET HUDSON MA	RELEASE
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RTN:	2-0019870	Phase:	PHASE II
Compliance Date:	5/17/2017	RAO Class:	
Compliance Status:	TIER1	Chemical Type:	
Compl Status Desc:	Tier 1 Classification	Location Type:	COMMERCIAL, RESIDENTIAL
Notification Date:	5/5/2016	Site Name (BWSC):	RESIDENTIAL PROPERTY
Source:	UNKNOWN, UPGRADIENT	Address (BWSC):	292 MAIN STREET
Reporting Category:	72 HR	Town (BWSC):	HUDSON
Site (EEA Data):	RESIDENTIAL PROPERTY	Zip Code (BWSC):	
Rel Add(EEA Data):	292 MAIN STREET	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0019870		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0019870		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	INTLET	F Name:	
Date:	15-Sep-2017	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			

Status:	IHEVAL	F Name:	
Date:	11-Jan-2017	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Imminent Hazard Evaluation Received		
RAO Class:			
RAO Class Desc:			

Status:	PLANWR	F Name:	
Date:	30-Jun-2016	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	14-Jul-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	ASSESS				F Name:	
Date:	19-May-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	IRA Assessment Only					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	21-Oct-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	INTLET				F Name:	
Date:	04-Dec-2017				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	NON				F Name:	
Date:	22-Sep-2016				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	25-Jan-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	PRPMTG				F Name:	
Date:	14-Dec-2018				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	17-May-2017				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	APWRIT				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	21-Jul-2016 IRA					L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	ASSESS 05-May-2016 IRA					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	IHEVAL 21-Oct-2016 IRA					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 04-Jun-2018 IRA					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	CSRCVD 17-May-2017 PHASEI					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PRPMTG 05-Apr-2018 RLFA					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 10-May-2016 RNFE					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	STRCVD 16-Nov-2017 IRA					F Name: L Name:
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 30-Nov-2017 IRA					F Name: L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	21-Jun-2016				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	16-Jun-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	30-May-2018				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	05-May-2016				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	TIERI				F Name:	
Date:	17-May-2017				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 1 Classification					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	15-Jun-2017				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	03-Nov-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	19-May-2016				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	20-Jul-2016				L Name:	
Action:	RLFA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:		PRPMTG			F Name:	
Date:		19-Apr-2018			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:		PRPMTG			F Name:	
Date:		20-Apr-2017			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						
Status:		SIGACC			F Name:	
Date:		13-Oct-2017			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:		STRCVD			F Name:	
Date:		09-May-2017			L Name:	
Action:		IRA				
Action Description:					Immediate Response Action	
Status Description:					Status or Interim Report Received	
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		22-Jul-2016			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		20-Oct-2017			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		27-Oct-2016			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:		PRPMTG			F Name:	
Date:		02-Jun-2016			L Name:	
Action:		RLFA				
Action Description:					Site Visit or Office Follow-up	
Status Description:					Meeting with PRP or PRP Representative	
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	TIER1	Phase:	PHASE II
Current St Desc:	Tier 1 Classification	RAO Class:	
Current Date:	17-May-2017	OHM:	
OFC Notification:	05-May-2016		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:			
Other Rela:			

131	1 of 6	W	0.37 / 1,956.47	208.32 / 15	G BONNAZOLI AND SONS INC 262 SAWYER LN HUDSON MA	LUST
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RTN:	2-0012775	Phase:	
Compliance Status:	RAO	Location Type(s):	COMMERCIAL
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	G BONNAZOLI AND SONS INC
Compliance Date:	7/25/2000	Address (BWSC):	262 SAWYER LN
Notification Date:	4/30/1999	Town (BWSC):	HUDSON
RAO Class:	B1	Zip Code (BWSC):	01749-0000
Chemical Type:	Oil	OFC Town (BWSC):	HUDSON
Reporting Category:	72 HR	Source(s):	UST
Site Name (EEA Data Portal):	G BONNAZOLI AND SONS INC		
Release Add (EEA Data Portal):	262 SAWYER LN		
City/Town (EEA Data Portal):	HUDSON		
Phase Desc:			
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012775		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012775		
Source File:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	B1
Current Date:	25-Jul-2000	OHM:	Oil
OFC Notification:	30-Apr-1999		
Phase Desc:			
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Other Rela:			

Chemical Information

Chemical:	GASOLINE
Amount:	130
Units:	PPMV

Action Information

Date:	30-Apr-2001	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	CSRCVD		
Status Description:	Completion Statement Received		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Date:	20-Apr-2001	First Name:	
Action:	AUDCOM	Last Name:	
Action Description:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		AFUCS				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	14-Feb-2001				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		ACTAUD				
Status Description:	Level III - Comprehensive Audit					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	14-Feb-2001				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		NON				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	25-Jul-2000				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		CSRCVD				
Status Description:	Completion Statement Received					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	25-Jul-2000				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		RAORCD				
Status Description:	RAO Statement Received (retired)					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	21-Nov-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		FEECD				
Status Description:	Fee Not Required - Fee Credited					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	30-Apr-1999				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:		FOLOFF				
Status Description:	Follow-up Office Response					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	14-Feb-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		INTLET				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	11-Sep-2000				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NOA				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	24-Apr-2001				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		INTLET				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	25-Jul-2000				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		PLANWR				
Status Description:	Written Plan Received					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	28-May-1999				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:	Correspondence Issued					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	30-Apr-1999				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:		REPORT				
Status Description:	Reportable Release under MGL 21E					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	21-Mar-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		AFUPLN				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	30-Apr-1999				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:		ASSESS				
Status Description:	IRA Assessment Only					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	30-Apr-2001				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		REVRCD				
Status Description:	Revised Statement or Transmittal Received					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	07-Apr-2000				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:		FEEREC				
Status Description:	Fee Received					
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	25-Jul-2000				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:		REPORT				
Status Description:	Reportable Release under MGL 21E					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	14-Feb-2001				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:		NAFVIO				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	24-Apr-2001				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	07-Jul-2000				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:		NON				
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Date:	03-Oct-2000				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:		FLDRAN				
Status Description:		Compliance Field Response - Announced				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				

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MR PROPERTY MANAGEMENT
262 SAWYER LN
HUDSON MA

RELEASE

RTN: 2-0013741 **Phase:** PHASE II
Compliance Date: 9/25/2006 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 3/19/2001 **Site Name (BWSC):** MR PROPERTY MANAGEMENT
Source: **Address (BWSC):** 262 SAWYER LN
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): MR PROPERTY MANAGEMENT **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 262 SAWYER LN **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013741>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013741>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 6110
Units: UG/L

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 678
Units: MG/KG

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 24-Apr-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 27-Mar-2002 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NDMDRC **F Name:**
Date: 28-Oct-2003 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Notice of Delay in Meeting RA Deadline Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 25-Sep-2006 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 19-Mar-2001 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 21-Sep-2006 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TIERII **F Name:**
Date: 30-Apr-2001 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: INTLET **F Name:**
Date: 24-Apr-2001 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 30-Apr-2001 **L Name:**
Action: PHASEI

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Action Description:		Phase 1				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	05-Dec-2003				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	19-Mar-2001				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	25-Mar-2002				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	NDMDRC				F Name:	
Date:	28-Oct-2003				L Name:	
Action:	PHASII					
Action Description:		Phase 2				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	02-Dec-2003				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Completion Statement Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	PLANWR				F Name:	
Date:	30-Nov-2001				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RAORCD				F Name:	
Date:	02-Dec-2003				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RECPT				F Name:	
Date:	30-Apr-2001				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	PHASE II
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	25-Sep-2006	OHM:	Oil
OFC Notification:	19-Mar-2001		
Phase Desc:	Comprehensive Site Assessment		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

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RTN:	2-0014944	Phase:	
Compliance Date:	9/25/2006	RAO Class:	
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	10/28/2003	Site Name (BWSC):	LOWER MAIN ST LLC C-O MR PROPERTY MGMT I
Source:		Address (BWSC):	262 SAWYER LN
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	LOWER MAIN ST LLC C-O MR PROPERTY MGMT I	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	262 SAWYER LN	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0014944		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0014944		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	PCB
Amount:	2.12
Units:	MG/KG

Action Information (BWSC)

Status:	ALSENT	F Name:	
Date:	14-Sep-2004	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Anniversary Letter Sent		
RAO Class:			
RAO Class Desc:			
Status:	RAORCD	F Name:	
Date:	25-Sep-2006	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:			
RAO Class Desc:			
Status:	TSAUD	F Name:	
Date:	05-Dec-2003	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: ISSUED **F Name:**
Date: 08-Sep-2006 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 28-Oct-2003 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 28-Oct-2003 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: INTLET **F Name:**
Date: 08-Sep-2006 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: NON **F Name:**
Date: 07-Jul-2005 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 25-Nov-2003 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: RAORCD **F Name:**
Date: 02-Dec-2003 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:**
Current Date: 25-Sep-2006 **OHM:** Hazardous Material
OFC Notification: 28-Oct-2003
Phase Desc:
RAO Class Desc:
Other Rela:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
131	4 of 6	W	0.37 / 1,956.47	208.32 / 15	MP DEVELOPMENT LLC 262 SAWYER LN HUDSON MA	RELEASE

RTN: 2-0015183
Compliance Date: 5/1/2006
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/31/2004
Source:
Reporting Category: 120 DY
Site (EEA Data): MP DEVELOPMENT LLC
Rel Add(EEA Data): 262 SAWYER LN
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015183>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015183>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 4.39
Units: MG/L

Action Information (BWSC)

Status: ISSUED
Date: 28-May-2004
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: STRCVD
Date: 12-Oct-2004
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 20-Apr-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 31-Mar-2004
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Status:	TSAUD				F Name:	
Date:	10-Jan-2005				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TSAUD				F Name:	
Date:	01-Mar-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TSAUD				F Name:	
Date:	15-Jun-2004				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	RECP				F Name:	
Date:	31-Mar-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TSAUD				F Name:	
Date:	13-May-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	RAORCD				F Name:	
Date:	01-May-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	ALSENT				F Name:	
Date:	04-Feb-2005				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Anniversary Letter Sent					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	CSRCVD				F Name:	
Date:	31-Mar-2005				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	TSAUD				F Name:	
Date:	13-May-2005				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	SOW				F Name:	
Date:	31-Mar-2005				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	CSRCVD				F Name:	
Date:	31-Mar-2005				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	FEEREC				F Name:	
Date:	10-Jun-2004				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Fee Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	PLANWR				F Name:	
Date:	04-Jun-2004				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	REPORT				F Name:	
Date:	31-Mar-2004				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	TIERII				F Name:	
Date:	31-Mar-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 01-May-2006
OFC Notification: 31-Mar-2004
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: 120 DY
Phase: PHASE II
RAO Class: A1
OHM: Oil

131	5 of 6	W	0.37 / 1,956.47	208.32 / 15	G BONNAZOLI AND SONS INC 262 SAWYER LN HUDSON MA 01749-0000	LST
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Site No: 2-0012775
Source: UST
Release Type: RAO
Chemical Type: Oil
Category: 72 HR
ROA Class Desc: Site assessment indicates that 'no significant risk' exists. No remedial work was necessary. Remedial actions have not been conducted because a level of No Significant Risk exists.
Phase Desc:
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0012775>
Location Type: COMMERCIAL

Chemicals Information

Chemical: GASOLINE
Amount: 130
Units: PPMV

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 04/30/1999
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 07/25/2000
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 04/30/2001
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: FEECRD Fee Not Required - Fee Credited - TFS Use Only
Submittal Date: 11/21/2003
RAO Class: B1
RAO Description: Site assessment indicates that 'no significant risk' exists. No remedial work was necessary. Remedial actions have not been conducted because a level of No Significant Risk exists.
Activity and Use Limitation: NONE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Licensed Site Professional

LSP No: 6815
 LSP Name: LOITHERSTEIN, JOEL S

RAO Detail

Class: B1
 Method: 1
 GW Category: 2
 Soil Category: 1
 RAO Description: Site assessment indicates that 'no significant risk' exists. No remedial work was necessary. Remedial actions have not been conducted because a level of No Significant Risk exists.

131	6 of 6	W	0.37 / 1,956.47	208.32 / 15	G BONNAZOLI AND SONS INC 262 SAWYER LN HUDSON MA	RELEASE
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RTN:	2-0012775	Phase:	
Compliance Date:	7/25/2000	RAO Class:	B1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	4/30/1999	Site Name (BWSC):	G BONNAZOLI AND SONS INC
Source:	UST	Address (BWSC):	262 SAWYER LN
Reporting Category:	72 HR	Town (BWSC):	HUDSON
Site (EEA Data):	G BONNAZOLI AND SONS INC	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	262 SAWYER LN	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012775		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012775		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		
Report Source:			

Chemical Information (BWSC)

Chemical: GASOLINE
 Amount: 130
 Units: PPMV

Action Information (BWSC)

Status:	AFUCS	F Name:	
Date:	20-Apr-2001	L Name:	
Action:	AUDCOM		
Action Description:			
Status Description:			
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	ISSUED	F Name:	
Date:	24-Apr-2001	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	FEECRD	F Name:	
Date:	21-Nov-2003	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Fee Not Required - Fee Credited				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	FEEREC				F Name:	
Date:	07-Apr-2000				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REVRCD				F Name:	
Date:	30-Apr-2001				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	INTLET				F Name:	
Date:	14-Feb-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	ASSESS				F Name:	
Date:	30-Apr-1999				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	IRA Assessment Only					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	25-Jul-2000				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	AFUPLN				F Name:	
Date:	21-Mar-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	CSRCVD				F Name:	
Date:	25-Jul-2000				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	CSRCVD				F Name:	
Date:	30-Apr-2001				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	FLDRAN				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	03-Oct-2000				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	FOLOFF				F Name:	
Date:	30-Apr-1999				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NOA				F Name:	
Date:	11-Sep-2000				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	INTLET				F Name:	
Date:	24-Apr-2001				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NAFVIO				F Name:	
Date:	14-Feb-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NON				F Name:	
Date:	07-Jul-2000				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	ISSUED				F Name:	
Date:	28-May-1999				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	30-Apr-1999				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NON				F Name:	
Date:	14-Feb-2001				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	B1					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: PLANWR
Date: 25-Jul-2000
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ACTAUD
Date: 14-Feb-2001
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level III - Comprehensive Audit
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD
Date: 25-Jul-2000
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 25-Jul-2000
OFC Notification: 30-Apr-1999
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

Category: 72 HR
Phase:
RAO Class: B1
OHM: Oil

132	1 of 5	W	0.32 / 1,695.30	203.11 / 9	THORNDIKE PROPERTIES OF MA 12 WHEELER RD HUDSON MA	AUL
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RTN: 2-0016411
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 10/18/2006
Notification Date: 10/3/2006
RAO Class:
Chemical Type: Hazardous Material
Reporting Category: 120 DY
Site Name (EEA Data Portal): THORNDIKE PROPERTIES OF MA
Release Add (EEA Data Portal): 12 WHEELER RD
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeonline.eea.state.ma.us/Portal#!/wastesite/2-0016411>
Docs URL: <https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016411>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
Location Type(s):
Site Name (BWSC): THORNDIKE PROPERTIES OF MA
Address (BWSC): 12 WHEELER RD
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON
Source(s):

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 18-Oct-2006
OFC Notification: 03-Oct-2006

Category: 120 DY
Phase:
RAO Class:
OHM: Hazardous Material

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc:
Other Rela:

Chemical Information

Chemical: AMMONIA
Amount: 740
Units: MG/KG

Action Information

Date: 23-Oct-2006 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Date: 18-Jun-2007 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: NAFNON
Status Description:
RAO Class:
RAO Class Desc:

Date: 18-Jun-2007 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: AMEND
Status Description: Amendment Received or Issued (LLE or HLE)
RAO Class:
RAO Class Desc:

Date: 20-Feb-2007 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: ACTAUD
Status Description: Level III - Comprehensive Audit
RAO Class:
RAO Class Desc:

Date: 31-Jul-2001 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: NDMDRC
Status Description: Notice of Delay in Meeting RA Deadline Received
RAO Class:
RAO Class Desc:

Date: 27-Jun-2007 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Date: 25-Apr-2012 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: SNAUDI
Status Description: Level II - Audit Inspection
RAO Class:
RAO Class Desc:

Date: 30-Nov-2006 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Date: 18-Jun-2007 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: REVRCD
Status Description: Revised Statement or Transmittal Received
RAO Class:
RAO Class Desc:

Date: 23-Oct-2006 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Date: 25-Apr-2012 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: NAFNVD
Status Description:
RAO Class:
RAO Class Desc:

Date: 25-Sep-2006 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: NAFNVD
Status Description:
RAO Class:
RAO Class Desc:

Date: 05-Apr-2012 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Date: 18-Oct-2006 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class:
RAO Class Desc:

Date: 03-Oct-2006 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Date: 19-Oct-2006 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: RECPT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Date: 16-Feb-2007 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: NAFNON
Status Description:
RAO Class:
RAO Class Desc:

Date: 03-Oct-2006 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

132	2 of 5	W	0.32 / 1,695.30	203.11 / 9	HUDSON LAGOONS 12 WHEELER RD HUDSON MA	AUL
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RTN: 2-0010526 **Phase:**
Compliance Status: RAO **Location Type(s):** INDUSTRIAL, RESIDENTIAL
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** HUDSON LAGOONS
Compliance Date: 10/18/2006 **Address (BWSC):** 12 WHEELER RD
Notification Date: 3/2/1995 **Town (BWSC):** HUDSON
RAO Class: A3 **Zip Code (BWSC):** 01749-0000
Chemical Type: Hazardous Material **OFC Town (BWSC):** HUDSON
Reporting Category: 120 DY **Source(s):** UNKNOWN
Site Name (EEA Data Portal): HUDSON LAGOONS
Release Add (EEA Data Portal): 12 WHEELER RD
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010526>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010526>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A3
Current Date: 18-Oct-2006 **OHM:** Hazardous Material
OFC Notification: 02-Mar-1995
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Other Rela:

Chemical Information

Chemical: ARSENIC
Amount: 149
Units: PPM

Action Information

Date: 18-Jun-2007 **First Name:**
Action: AUDCOM **Last Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:						
Status:		NAFNON				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	26-Feb-2004				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:		APPREC				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	30-Jul-2001				First Name:	
Action:	PHASIV				Last Name:	
Action Description:		Phase 4				
Status:		NDMDRC				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	17-Oct-2006				First Name:	
Action:	PHASIV				Last Name:	
Action Description:		Phase 4				
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	17-Oct-2005				First Name:	
Action:	RLFA				Last Name:	
Action Description:		Site Visit or Office Follow-up				
Status:		FOLOFF				
Status Description:		Follow-up Office Response				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	02-Mar-1995				First Name:	
Action:	RNF				Last Name:	
Action Description:		Release Notification Form Received				
Status:		REPORT				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	30-Nov-2006				First Name:	
Action:	AUL				Last Name:	
Action Description:		Activity and Use Limitation				
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	03-Oct-2006				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:		TERMIN				
Status Description:		Action Status or AUL Terminated				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	18-Jan-1996				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	15-Jun-2005				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Oct-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	27-Jun-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	28-Dec-1995				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Jan-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Jan-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIERII					
Status Description:	Tier 2 Classification					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	25-Sep-2006				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	01-Mar-2004				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:		APPACC				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	23-Jul-2002				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:		APPACC				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	01-Jul-2002				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:		APPREC				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	18-Jan-1995				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:		ISSUED				
Status Description:		Correspondence Issued				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	31-Oct-2001				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:		CSRCVD				
Status Description:		Completion Statement Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	19-Mar-2014				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:		FLDRUN				
Status Description:		Compliance Field Response - Unannounced				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	18-Jul-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:		FLDRUN				
Status Description:		Compliance Field Response - Unannounced				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	21-Sep-2006				First Name:	
Action:	RLFA				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	26-Sep-2001				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	DNPRES					
Status Description:	Tier Extension Denied					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	19-Oct-2006				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	25-Apr-2012				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	SNAUDI					
Status Description:	Level II - Audit Inspection					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	05-Apr-2012				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	23-Oct-2006				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	27-Oct-1994				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	30-Jan-2002				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
Date:	30-Jul-2001				First Name:	
Action:	PHSIII				Last Name:	
Action Description:	Phase 3					
Status:	NDMDRC					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	31-Jul-2001				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	NDMDRC					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	21-Dec-2005				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	T2TRAN					
Status Description:	Tier 2 Transfer (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	01-Apr-2005				First Name:	
Action:	FTLI				Last Name:	
Action Description:						
Status:	APPACC					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	16-Feb-2007				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	21-Dec-2005				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	15-Jun-2005				First Name:	
Action:	PHASII				Last Name:	
Action Description:	Phase 2					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	02-May-2006				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	PLANWR					
Status Description:	Written Plan Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	25-Sep-2006				First Name:	
Action:	PHASIV				Last Name:	
Action Description:	Phase 4					
Status:	SNAUDI					
Status Description:	Level II - Audit Inspection					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	20-Feb-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	ACTAUD					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Jun-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	22-Aug-2006				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	21-Dec-2005				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	T2EXT					
Status Description:	Tier 2 Extension (retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	25-Apr-2012				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	18-Jun-2007				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	AMEND					
Status Description:	Amendment Received or Issued (LLE or HLE)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	20-Nov-2001				First Name:	
Action:	C&E				Last Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:						
Status:		ACO				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 25-Mar-2005						
Action:		FTLI			First Name:	
					Last Name:	
Action Description:						
Status:		APPREC				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 27-Dec-2000						
Action:		PHASII			First Name:	
		Phase 2			Last Name:	
Action Description:						
Status:		SOW				
Status Description: Scope of Work Received						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 20-Apr-2012						
Action:		RLFA			First Name:	
		Site Visit or Office Follow-up			Last Name:	
Action Description:						
Status:		FLDRUN				
Status Description: Compliance Field Response - Unannounced						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 25-Nov-2005						
Action:		TCLASS			First Name:	
		Tier Classification			Last Name:	
Action Description:						
Status:		T2EXT				
Status Description: Tier 2 Extension (retired)						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 25-Jun-2001						
Action:		C&E			First Name:	
					Last Name:	
Action Description:						
Status:		NON				
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date: 13-Oct-2006						
Action:		PHASIV			First Name:	
		Phase 4			Last Name:	
Action Description:						
Status:		CSRCVD				
Status Description: Completion Statement Received						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				

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W

0.32 /
1,695.30203.11 /
9HUDSON LAGOONS
12 WHEELER RD
HUDSON MA

RELEASE

RTN: 2-0010526
 Compliance Date: 10/18/2006
 Compliance Status: RAO
 Compl Status Desc: Response Action Outcome

Phase:
 RAO Class: A3
 Chemical Type: Hazardous Material
 Location Type: INDUSTRIAL, RESIDENTIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Notification Date:	3/2/1995				Site Name (BWSC): HUDSON LAGOONS	
Source:	UNKNOWN				Address (BWSC): 12 WHEELER RD	
Reporting Category:	120 DY				Town (BWSC): HUDSON	
Site (EEA Data):	HUDSON LAGOONS				Zip Code (BWSC): 01749-0000	
Rel Add(EEA Data):	12 WHEELER RD				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010526					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010526					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: ARSENIC
Amount: 149
Units: PPM

Action Information (BWSC)

Status: NON **F Name:**
Date: 25-Jun-2001 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: APPREC **F Name:**
Date: 01-Jul-2002 **L Name:**
Action: FTLI
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: ISSUED **F Name:**
Date: 21-Dec-2005 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: SNAUDI **F Name:**
Date: 25-Sep-2006 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Level II - Audit Inspection
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: NAFNON **F Name:**
Date: 18-Jun-2007 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ISSUED				F Name:	
Date:	18-Jan-1995				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	PLANWR				F Name:	
Date:	02-May-2006				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Written Plan Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	NDMDRC				F Name:	
Date:	30-Jul-2001				L Name:	
Action:	PHSIII					
Action Description:	Phase 3					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TSAUD				F Name:	
Date:	23-Oct-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	REPORT				F Name:	
Date:	27-Oct-1994				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FLDRUN				F Name:	
Date:	20-Apr-2012				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FLDRUN				F Name:	
Date:	18-Jul-2006				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	T2EXT				F Name:	
Date:	21-Dec-2005				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Extension (retired)					
RAO Class:	A3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	TSAUD				F Name:	
Date:	30-Nov-2006				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TERMIN				F Name:	
Date:	03-Oct-2006				L Name:	
Action:	FTLI					
Action Description:	Action Status or AUL Terminated					
Status Description:	A3					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	NMDMRC				F Name:	
Date:	30-Jul-2001				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	ACTAUD				F Name:	
Date:	20-Feb-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	REVRCD				F Name:	
Date:	18-Jun-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	REPORT				F Name:	
Date:	28-Dec-1995				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FLDRUN				F Name:	
Date:	19-Mar-2014				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FLDRUN				F Name:	
Date:	22-Aug-2006				L Name:	
Action:	RLFA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	FLDRUN				F Name:	
Date:	21-Sep-2006				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	DNPREX				F Name:	
Date:	26-Sep-2001				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Tier Extension Denied	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	RECPT				F Name:	
Date:	18-Jan-1996				L Name:	
Action:	TCLASS					
Action Description:					Tier Classification	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	NAFNVD				F Name:	
Date:	25-Apr-2012				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	RECPT				F Name:	
Date:	19-Oct-2006				L Name:	
Action:	AUL					
Action Description:					Activity and Use Limitation	
Status Description:					Transmittal, Notice, or Notification Received	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	SNAUDI				F Name:	
Date:	25-Apr-2012				L Name:	
Action:	AUL					
Action Description:					Activity and Use Limitation	
Status Description:					Level II - Audit Inspection	
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	
Status:	ACO				F Name:	
Date:	20-Nov-2001				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:					A3	
RAO Class Desc:					A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	APPACC				F Name:	
Date:	23-Jul-2002				L Name:	
Action:	FTLI					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	CSRCVD				F Name:	
Date:	13-Oct-2006				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	FOLOFF				F Name:	
Date:	17-Oct-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	NAFNVD				F Name:	
Date:	25-Sep-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	AMEND				F Name:	
Date:	18-Jun-2007				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Amendment Received or Issued (LLE or HLE)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	APPACC				F Name:	
Date:	01-Mar-2004				L Name:	
Action:	FTLI					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	APPREC				F Name:	
Date:	26-Feb-2004				L Name:	
Action:	FTLI					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	CSRCVD				F Name:	
Date:	18-Jan-1996				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	A3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	SOW				F Name:	
Date:	27-Dec-2000				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	TSAUD				F Name:	
Date:	15-Jun-2005				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	TSAUD				F Name:	
Date:	17-Oct-2006				L Name:	
Action:	PHASIV					
Action Description:	Phase 4					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	NMDMRC				F Name:	
Date:	31-Jul-2001				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Notice of Delay in Meeting RA Deadline Received					
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	REPORT				F Name:	
Date:	02-Mar-1995				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	NAFNON				F Name:	
Date:	16-Feb-2007				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	APPREC				F Name:	
Date:	25-Mar-2005				L Name:	
Action:	FTLI					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	CSRCVD				F Name:	
Date:	31-Oct-2001				L Name:	
Action:	PHASII					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Phase 2				
Status Description:		Completion Statement Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	CSRCVD				F Name:	
Date:	30-Jan-2002				L Name:	
Action:	PHSIII					
Action Description:		Phase 3				
Status Description:		Completion Statement Received				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	TSAUD				F Name:	
Date:	15-Jun-2005				L Name:	
Action:	PHSIII					
Action Description:		Phase 3				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	T2EXT				F Name:	
Date:	25-Nov-2005				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Tier 2 Extension (retired)				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	T2TRAN				F Name:	
Date:	21-Dec-2005				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Tier 2 Transfer (retired)				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	TSAUD				F Name:	
Date:	05-Apr-2012				L Name:	
Action:	AUL					
Action Description:		Activity and Use Limitation				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	APPACC				F Name:	
Date:	01-Apr-2005				L Name:	
Action:	FTLI					
Action Description:						
Status Description:						
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Status:	RAORCD				F Name:	
Date:	18-Oct-2006				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	TSAUD				F Name:	
Date:	27-Jun-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TIERII				F Name:	
Date:	18-Jan-1996				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A3
Current Date:	18-Oct-2006	OHM:	Hazardous Material
OFC Notification:	02-Mar-1995		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.		

Other Rela:

132	4 of 5	W	0.32 / 1,695.30	203.11 / 9	THORNDIKE PROPERTIES OF MA 12 WHEELER RD HUDSON MA	RELEASE
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RTN:	2-0016411	Phase:	
Compliance Date:	10/18/2006	RAO Class:	
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	10/3/2006	Site Name (BWSC):	THORNDIKE PROPERTIES OF MA
Source:		Address (BWSC):	12 WHEELER RD
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	THORNDIKE PROPERTIES OF MA	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	12 WHEELER RD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016411		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016411		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	AMMONIA
Amount:	740
Units:	MG/KG

Action Information (BWSC)

Status:	ACTAUD	F Name:	
Date:	20-Feb-2007	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level III - Comprehensive Audit		
RAO Class:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	03-Oct-2006				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	19-Oct-2006				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	16-Feb-2007				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	05-Apr-2012				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	30-Nov-2006				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	RAORCD				F Name:	
Date:	18-Oct-2006				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:						
RAO Class Desc:						
Status:	NAFNVD				F Name:	
Date:	25-Sep-2006				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	REVRCD				F Name:	
Date:	18-Jun-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:						
RAO Class Desc:						
Status:	SNAUDI				F Name:	
Date:	25-Apr-2012				L Name:	
Action:	AUL					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Activity and Use Limitation				
Status Description:		Level II - Audit Inspection				
RAO Class:						
RAO Class Desc:						
Status:	NDMDRC				F Name:	
Date:	31-Jul-2001				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Notice of Delay in Meeting RA Deadline Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	27-Jun-2007				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	NAFNVD				F Name:	
Date:	25-Apr-2012				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	AMEND				F Name:	
Date:	18-Jun-2007				L Name:	
Action:	AUL					
Action Description:		Activity and Use Limitation				
Status Description:		Amendment Received or Issued (LLE or HLE)				
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	23-Oct-2006				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	03-Oct-2006				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:						
RAO Class Desc:						
Status:	NAFNON				F Name:	
Date:	18-Jun-2007				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	23-Oct-2006				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	
Current Date:	18-Oct-2006	OHM:	Hazardous Material
OFC Notification:	03-Oct-2006		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

132	5 of 5	W	0.32 / 1,695.30	203.11 / 9	Hudson Lagoons 12 Wheeler Rd Hudson MA	BROWNFIELDS
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RTN:	2-0010526	Rao:	A3
Other RTNs:	2-0016411	Aul:	Yes
Map Par ID:	41_40	Cocs:	Arsenic
Loc ID:	M_194913_903888	Former Use:	Industrial, Residential
MCP Status:	RAO	Current Use:	
Site Name(MassDEP):	Hudson Lagoons	Total Acreage:	30.88
Address (MassDEP):	12 Wheeler Rd	Shape Le:	1201.91703314
City (MassDEP):	Hudson	Shape Ar:	41778.0448599
Site Name (CERO):	HUDSON LAGOONS	Acres:	10.3235797123
Address (CERO):	WHEELER RD	Shape Are:	76629.5117188
City (CERO):	HUDSON	Shape Len:	1628.28639327
Data Source:	MassDEP Brownfields List; MassDEP CERO Brownfields GIS Tool		
Current Owner:	Residential/ Condominium		
Fact Sheet:	http://massdep.org/CERO/2-0010526.pdf		

133	1 of 1	W	0.86 / 4,563.02	313.71 / 120	STOP & SHOP SUPERMARKET 10 TECHNOLOGY DR HUDSON MA	RELEASE
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RTN:	2-0016344	Phase:	
Compliance Date:	9/26/2006	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	8/5/2006	Site Name (BWSC):	STOP & SHOP SUPERMARKET
Source:	VEHICLE	Address (BWSC):	10 TECHNOLOGY DR
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	STOP & SHOP SUPERMARKET	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	10 TECHNOLOGY DR	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016344		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016344		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	DIESEL FUEL
Amount:	20
Units:	GAL

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	26-Sep-2006	L Name:	

Map Key Number of Records Direction Distance (mi/ft) Elev/Diff (ft) Site DB

Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL F Name:
Date: 05-Aug-2006 L Name:
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED F Name:
Date: 17-Aug-2006 L Name:
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT F Name:
Date: 05-Aug-2006 L Name:
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: TSAUD F Name:
Date: 17-Jan-2007 L Name:
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: TSAUD F Name:
Date: 13-Oct-2006 L Name:
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: Category: TWO HR
Current Status: RAO Phase:
Current St Desc: Response Action Outcome RAO Class: A1
Current Date: 26-Sep-2006 OHM: Oil
OFC Notification: 05-Aug-2006
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

[134](#)

1 of 1

W

0.40 /
2,137.55

209.99 /
16

ST MICHAELS PARISH
246 MAIN ST
HUDSON MA

RELEASE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RTN:	2-0015179				Phase:	
Compliance Date:	3/21/2005				RAO Class:	A2
Compliance Status:	RAO				Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome				Location Type:	
Notification Date:	3/22/2004				Site Name (BWSC):	ST MICHAELS PARISH
Source:					Address (BWSC):	246 MAIN ST
Reporting Category:	120 DY				Town (BWSC):	HUDSON
Site (EEA Data):	ST MICHAELS PARISH				Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	246 MAIN ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015179					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015179					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical:	COPPER
Amount:	5130
Units:	MG/KG
Chemical:	PHENANTHRENE
Amount:	148
Units:	MG/KG
Chemical:	BENZ[A]ANTHRACENE
Amount:	92.3
Units:	MG/KG
Chemical:	CHRYSENE
Amount:	77
Units:	MG/KG
Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Amount:	2280
Units:	MG/KG
Chemical:	ZINC
Amount:	4740
Units:	MG/KG
Chemical:	LEAD
Amount:	2120
Units:	MG/KG
Chemical:	2-METHYLNAPHTHALENE
Amount:	10
Units:	MG/KG
Chemical:	LEAD
Amount:	0.0408
Units:	MG/L
Chemical:	PHENANTHRENE
Amount:	0.111
Units:	MG/L
Chemical:	BENZ[E]ACEPHENANTHRYLENE
Amount:	63.1
Units:	MG/KG
Chemical:	BENZO[A]PYRENE
Amount:	60.7
Units:	MG/KG

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Chemical:			ETHANE, 1,1,2,2-TETRACHLORO-			
Amount:			0.217			
Units:			MG/KG			
Chemical:			C19 THRU C36 ALIPHATIC HYDROCARBONS			
Amount:			10400			
Units:			MG/KG			
Chemical:			ARSENIC			
Amount:			43.1			
Units:			MG/KG			
Chemical:			NAPHTHALENE			
Amount:			478			
Units:			MG/KG			
Chemical:			INDENO(1,2,3-CD)PYRENE			
Amount:			29			
Units:			MG/KG			
Chemical:			DIBENZ[A,H]ANTHRACENE			
Amount:			2.76			
Units:			MG/KG			

Action Information (BWSC)

Status: TSAUD **F Name:**
Date: 23-Aug-2004 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 24-Mar-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 21-Mar-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 23-Aug-2004 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ALSENT **F Name:**
Date: 11-Mar-2005 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 25-Oct-2004 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	ISSUED				F Name:	
Date:	23-Jun-2004				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	PLANWR				F Name:	
Date:	04-Jun-2004				L Name:	
Action:	RAM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	TSAUD				F Name:	
Date:	10-Jun-2004				L Name:	
Action:	RAM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	REPORT				F Name:	
Date:	22-Mar-2004				L Name:	
Action:	RNF					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	ISSUED				F Name:	
Date:	16-Apr-2004				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	ALSENT				F Name:	
Date:	04-Feb-2005				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	CSRCVD				F Name:	
Date:	21-Mar-2005				L Name:	
Action:	RAM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.
Status:	PLANMD				F Name:	
Date:	17-Aug-2004				L Name:	
Action:	RAM					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: STRCVD **F Name:**
Date: 12-Oct-2004 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 22-Mar-2004 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 31-May-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 21-Mar-2005 **OHM:** Oil and Hazardous Material
OFC Notification: 22-Mar-2004
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

135	1 of 2	W	0.48 / 2,509.36	278.37 / 85	TUCKS SERVICE CENTER 244 BROAD ST HUDSON MA	AUL
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RTN: 2-0000938 **Phase:** PHASE II
Compliance Status: RAO **Location Type(s):** GASSTATION
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** TUCKS SERVICE CENTER
Compliance Date: 8/10/2000 **Address (BWSC):** 244 BROAD ST
Notification Date: 8/17/1992 **Town (BWSC):** HUDSON
RAO Class: A3 **Zip Code (BWSC):** 01749-0000
Chemical Type: Oil **OFC Town (BWSC):** HUDSON
Reporting Category: NONE **Source(s):**
Site Name (EEA Data Portal): TUCKS SERVICE CENTER
Release Add (EEA Data Portal): 244 BROAD ST
City/Town (EEA Data Portal): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000938>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000938>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE II
Current Status Desc: Response Action Outcome **RAO Class:** A3
Current Date: 10-Aug-2000 **OHM:** Oil
OFC Notification: 17-Aug-1992

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phase Desc:		Comprehensive Site Assessment				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Other Rela:						
<u>Chemical Information</u>						
Chemical:		PETROLEUM				
Amount:						
Units:						
<u>Action Information</u>						
Date:	27-May-2003				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	27-Nov-2002				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	24-Mar-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	27-Mar-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	20-Mar-2015				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	FLDRUN					
Status Description:	Compliance Field Response - Unannounced					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	03-Sep-2003				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	AMEND					
Status Description:	Amendment Received or Issued (LLE or HLE)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	29-Jul-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	29-Jul-1996				First Name:	
Action:	TCLASS				Last Name:	
Action Description:	Tier Classification					
Status:	TIERII					
Status Description:	Tier 2 Classification					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	19-Aug-1996				First Name:	
Action:	TREGS				Last Name:	
Action Description:						
Status:	LSPFA					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	28-Jul-2000				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	RECPT					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	20-Sep-1999				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	11-Oct-2002				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NOA					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	25-Mar-2015				First Name:	
Action:	AUL				Last Name:	
Action Description:	Activity and Use Limitation					
Status:	SNAUDI					
Status Description:	Level II - Audit Inspection					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	17-Aug-1992				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	19-Aug-1996				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	10-Aug-2000				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	29-Sep-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	REVRCD					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	27-May-2003				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	ACTAUD					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	27-May-2003				First Name:	
Action:	C&E				Last Name:	
Action Description:						
Status:	INTLET					
Status Description:						
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	29-Jul-1996				First Name:	
Action:	PHASEI				Last Name:	
Action Description:	Phase 1					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	29-Jun-1998				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	04-Feb-2005				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		TSAUD				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A3				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.				
Date:	17-Aug-1992				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	TCTRNS					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	25-Mar-2015				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNON					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	24-Feb-1997				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	20-Mar-2015				First Name:	
Action:	RLFA				Last Name:	
Action Description:	Site Visit or Office Follow-up					
Status:	PRPMTG					
Status Description:	Meeting with PRP or PRP Representative					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	29-Aug-2003				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	AFUCS					
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	10-Aug-2000				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Date:	03-Oct-1997				First Name:	
Action:	RAM				Last Name:	
Action Description:	Release Abatement Measure					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
135	2 of 2	W	0.48 / 2,509.36	278.37 / 85	TUCKS SERVICE CENTER 244 BROAD ST HUDSON MA	RELEASE

RTN: 2-0000938
Compliance Date: 8/10/2000
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 8/17/1992
Source:
Reporting Category: NONE
Site (EEA Data): TUCKS SERVICE CENTER
Rel Add(EEA Data): 244 BROAD ST
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000938>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000938>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Status: TSAUD
Date: 27-Nov-2002
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: STRCVD
Date: 27-Mar-2000
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: RAORCD
Date: 10-Aug-2000
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: TSAUD
Date: 04-Feb-2005
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	TIERII				F Name:	
Date:	29-Jul-1996				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Classification					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	STRCVD				F Name:	
Date:	24-Feb-1997				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	ACTAUD				F Name:	
Date:	27-May-2003				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level III - Comprehensive Audit					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	LSPFA				F Name:	
Date:	19-Aug-1996				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	TCTRNS				F Name:	
Date:	17-Aug-1992				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Valid Transition Site (Retired)					
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	AFUCS				F Name:	
Date:	29-Aug-2003				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	NAFNON				F Name:	
Date:	27-May-2003				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.					
Status:	CSRCVD				F Name:	
Date:	10-Aug-2000				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Completion Statement Received					
RAO Class:	A3					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	PLANWR				F Name:	
Date:	19-Aug-1996				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Written Plan Received			
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	STRCVD				F Name:	
Date:	03-Oct-1997				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Status or Interim Report Received			
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	NAFNON				F Name:	
Date:	25-Mar-2015				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	SNAUDI				F Name:	
Date:	25-Mar-2015				L Name:	
Action:	AUL					
Action Description:			Activity and Use Limitation			
Status Description:			Level II - Audit Inspection			
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	INTLET				F Name:	
Date:	27-May-2003				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	STRCVD				F Name:	
Date:	24-Mar-1999				L Name:	
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Status or Interim Report Received			
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	REVRCD				F Name:	
Date:	29-Sep-2003				L Name:	
Action:	RAO					
Action Description:			Response Action Outcome -RAO			
Status Description:			Revised Statement or Transmittal Received			
RAO Class:	A3					
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	STRCVD				F Name:	
Date:	20-Sep-1999				L Name:	
Action:	RAM					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:			Release Abatement Measure			
Status Description:			Status or Interim Report Received			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	RECPT			F Name:		
Date:	29-Jul-1996			L Name:		
Action:	TCLASS					
Action Description:			Tier Classification			
Status Description:			Transmittal, Notice, or Notification Received			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	AMEND			F Name:		
Date:	03-Sep-2003			L Name:		
Action:	AUL					
Action Description:			Activity and Use Limitation			
Status Description:			Amendment Received or Issued (LLE or HLE)			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	RECPT			F Name:		
Date:	28-Jul-2000			L Name:		
Action:	AUL					
Action Description:			Activity and Use Limitation			
Status Description:			Transmittal, Notice, or Notification Received			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	CSRCVD			F Name:		
Date:	29-Jul-1996			L Name:		
Action:	PHASEI					
Action Description:			Phase 1			
Status Description:			Completion Statement Received			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	PRPMTG			F Name:		
Date:	20-Mar-2015			L Name:		
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			
Status Description:			Meeting with PRP or PRP Representative			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	NOA			F Name:		
Date:	11-Oct-2002			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			
Status:	ISSUED			F Name:		
Date:	17-Aug-1992			L Name:		
Action:	NOR					
Action Description:			Notice of Responsibility			
Status Description:			Correspondence Issued			
RAO Class:			A3			
RAO Class Desc:			A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: STRCVD **F Name:**
Date: 29-Jun-1998 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: FLDRUN **F Name:**
Date: 20-Mar-2015 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE II
Current St Desc: Response Action Outcome **RAO Class:** A3
Current Date: 10-Aug-2000 **OHM:** Oil
OFC Notification: 17-Aug-1992
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Other Rela:

136	1 of 1	E	0.36 / 1,922.68	131.41 / -62	RICHEY & CLAPPER LANDSCAPE SUPPLY CO. 33 BOSTON POST ROAD SUDBURY MA	RELEASE
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RTN: 3-0029754 **Phase:**
Compliance Date: 1/20/2011 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:**
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 1/17/2011 **Site Name (BWSC):** RICHEY & CLAPPER LANDSCAPE SUPPLY CO.
Source: TRANSFORM **Address (BWSC):** 33 BOSTON POST ROAD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): RICHEY & CLAPPER LANDSCAPE SUPPLY CO. **Zip Code (BWSC):**
Rel Add(EEA Data): 33 BOSTON POST ROAD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0029754>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0029754>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: MODF
Amount: 100
Units: GAL

Chemical: MINERAL OIL DIELECTRIC FLUID
Amount: 95
Units: GAL

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 17-Jan-2011 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: TSAUD **F Name:**
Date: 08-Feb-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 22-Feb-2011 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 20-Jan-2011 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 20-Jan-2011 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RECPT **F Name:**
Date: 20-Jan-2011 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FLDD1U **F Name:**
Date: 17-Jan-2011 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 17-Jan-2011 **L Name:**
Action: REL
Action Description: Release Disposition

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 20-Jan-2011
OFC Notification: 17-Jan-2011
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Category: TWO HR
Phase:
RAO Class: A1
OHM:

Other Rela:

137	1 of 1	W	0.88 / 4,662.48	312.57 / 119	ACT MANUFACTURING CORP TECHNOLOGY DR AND RTE 85 HUDSON MA	RELEASE
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RTN: 2-0013377
Compliance Date: 9/15/2000
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 7/18/2000
Source: VEHICLE
Reporting Category: TWO HR
Site (EEA Data): ACT MANUFACTURING CORP
Rel Add(EEA Data): TECHNOLOGY DR AND RTE 85
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013377>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013377>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A1
Chemical Type: Oil
Location Type: ROADWAY
Site Name (BWSC): ACT MANUFACTURING CORP
Address (BWSC): TECHNOLOGY DR AND RTE 85
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 75
Units: GAL

Action Information (BWSC)

Status: ISSUED
Date: 23-Aug-2000
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 15-Sep-2000
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 18-Jul-2000 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 18-Jul-2000 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FLDISS **F Name:**
Date: 18-Jul-2000 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Field NOR Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 15-Sep-2000 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 15-Sep-2000 **OHM:** Oil
OFC Notification: 18-Jul-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

138	1 of 1	W	0.79 / 4,191.72	307.89 / 114	TUCKS TRUCKS 242 244 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0013492 **Phase:**
Compliance Date: 9/22/2000 **RAO Class:** B1
Compliance Status: RAO **Chemical Type:** Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 9/22/2000 **Site Name (BWSC):** TUCKS TRUCKS
Source: **Address (BWSC):** 242 244 WASHINGTON ST
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): TUCKS TRUCKS **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 242 244 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013492>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013492>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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(BWSC)

Chemical Information (BWSC)

Chemical: BERYLLIUM
Amount: 0.8
Units: MG/KG

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 22-Sep-2000 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: ISSUED **F Name:**
Date: 02-Nov-2000 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: RAORCD **F Name:**
Date: 22-Sep-2000 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: REPORT **F Name:**
Date: 22-Sep-2000 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 22-Sep-2000 **OHM:** Hazardous Material
OFC Notification: 22-Sep-2000
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

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1 of 9

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0.37 /
1,967.39

130.20 /
-64

SUDBURY SAND HILL LANDFILL
20 BOSTON POST RD
SUDBURY, MA 01776 MA

SWF/LF

Old ID: SL0288.001 **Tons 1995:** 7567
Old ID No: 0288.001 **Tons 1996:** 1850
Status: Closed **Tons 1997:**
LD Closure Status: Capped **Tons 1998:**
Active Year: 1970 **Tons 1999:**
Close Year: 2005 **Tons 2000:**
Inactive Year: 1996 **Tons 2001:**
Open Days: 260 **Tons 2002:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RO Acct:	224306				Tons 2003:	
Acres:	22				Tons 2004:	
Region Code:	NE				Tons 2005:	
Region:	Northeast (Wilmington).				Tons 2006:	
Municipality:	SUDBURY				Tons 2007:	
County:	MIDDLESEX				Tons 2008:	
Site Phone:	(978)443-8891				Tons 2009:	
Site City State Zip:	SUDBURY, MA 01776				Tons 2010:	
Site Location Note:					Tons 2011:	
Resp City State ZIP:	SUDBURY, MA 01776				Tons 2012:	
Resp Org Name:	TOWN OF SUDBURY				Tons 2013:	
Respons Org Type:	Municipal				Tons 2014:	
Respons Phone:					Tons 2015:	
Respons Str Addr1:	278 OLD SUDBURY RD				TPD Max:	99
Resp Street Addr2:					Contact Phone:	(978)443-8891
Contact Org:	TOWN OF SUDBURY				Contact Address:	288 SUDBURY RD
Contact Person:	STEVEN LEDOUX, TOWN MRG				Cont City State Zip:	SUDBURY, MA 01776
Class Group:	Land Disposal					
Last Class Code:	CLF					
Last Class:	Closed Landfill with Env Monitoring Required					
LD W Cate Code:	MSW					
LD Waste Category:	Municipal Solid Waste.					
LF Liner Code:	Lined					
LF Liner:	some or all of the landfill is lined.					
Contact Org Type:	Municipal					
Cont Org Ty Desc:	Municipal government, county, or group of municipal governments.					
Class Group Description:	An operation established in accordance with a valid site assignment for the disposal of solid waste into or on land (Landfill), or a location for disposal of solid waste from one or more sources which is not established or maintained pursuant to a valid site assignment or permit (Dumping Ground).					
Status Description:	Not operating, unlikely to operate in the future; Landfill/Dumping Ground closure complete (see LD_ClosureStatus above), Combustion and Handling/Transfer facility permit was relinquished or expired.					

[139](#) 2 of 9

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0.37 /
1,967.39

130.20 /
-64

**SUDBURY TRANSFER &
RECYCLING CENTER
20 BOSTON POST RD
SUDBURY, MA 01776 MA**

SWF/LF

Old ID:	TR0288.009	Tons 1995:	
Old ID No:	0288.009	Tons 1996:	
Status:	Active	Tons 1997:	
LD Closure Status:	n/a	Tons 1998:	2977
Active Year:	1996	Tons 1999:	2817
Close Year:		Tons 2000:	2851
Inactive Year:		Tons 2001:	3270
Open Days:	156	Tons 2002:	2114
RO Acct:	318294	Tons 2003:	2364
Acres:		Tons 2004:	2394
Region Code:	NE	Tons 2005:	4128
Region:	Northeast (Wilmington).	Tons 2006:	2430
Municipality:	SUDBURY	Tons 2007:	2307
County:	MIDDLESEX	Tons 2008:	2419
Site Phone:	(978)443-2209 1390	Tons 2009:	2672
Site City State Zip:	SUDBURY, MA 01776	Tons 2010:	
Site Location Note:		Tons 2011:	
Resp City State ZIP:	SUDBURY, MA 01776	Tons 2012:	
Resp Org Name:	TOWN OF SUDBURY	Tons 2013:	
Respons Org Type:	Municipal	Tons 2014:	
Respons Phone:		Tons 2015:	
Respons Str Addr1:	278 OLD SUDBURY RD	TPD Max:	
Resp Street Addr2:		Contact Phone:	(978)443-2209 1390
Contact Org:	SUDBURY DPW	Contact Address:	275 OLD LANCASTER RD
Contact Person:	WILLIAM PLACE, DPW DIR	Cont City State Zip:	SUDBURY, MA 01776
Class Group:	Handling/Transfer		
Last Class Code:	SMTRAN		
Last Class:	Small Transfer Station		
LD W Cate Code:	n/a		
LD Waste Category:	n/a		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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LF Liner Code: n/a
LF Liner: n/a
Contact Org Type: Municipal
Cont Org Ty Desc: Municipal government, county, or group of municipal governments.
Class Group Description: A permitted operation for receiving solid waste and consolidating it for shipment to facilities, or to recycle, compost, or otherwise process solid waste materials.
Status Description: Currently permitted to operate.

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RTN: 3-0017083
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 4/30/1999
Notification Date: 7/24/1998
RAO Class: A2
Chemical Type: Oil
Reporting Category: TWO HR
Site Name (EEA Data Portal): DPW TRANSFER STATION
Release Add (EEA Data Portal): 20 BOSTON POST RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0017083>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0017083>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 30-Apr-1999
OFC Notification: 24-Jul-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Chemical: DIESEL FUEL
Amount: 100
Units: GAL

Action Information

Date: 24-Sep-1998
Action: RNF
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 24-Jul-1998
Action: IRA
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	27-Aug-1998				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	03-May-1999				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	FEEREC					
Status Description:	Fee Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	24-Sep-1998				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANWR					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	30-Apr-1999				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	20-Nov-1998				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	STRCVD					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	24-Jul-1998				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

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BELL TELL MANHOLE 206
20 BOSTON POST ROAD
SUDBURY MA

RELEASE

RTN:	3-0029909	Phase:	
Compliance Date:	10/15/2012	RAO Class:	
Compliance Status:	ADEQUATE REG	Chemical Type:	Hazardous Material
Compl Status Desc:	Adequately Regulated	Location Type:	MUNICIPAL
Notification Date:	3/31/2011	Site Name (BWSC):	BELL TELL MANHOLE 206
Source:	GAS, LANDFILL	Address (BWSC):	20 BOSTON POST ROAD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	BELL TELL MANHOLE 206	Zip Code (BWSC):	01776-2437
Rel Add(EEA Data):	20 BOSTON POST ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0029909		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0029909		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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(BWSC)

Chemical Information (BWSC)

Chemical: METHANE
Amount: 17
Units: %LEL

Action Information (BWSC)

Status: ADQREG **F Name:**
Date: 15-Oct-2012 **L Name:**
Action: RAONR
Action Description: RAO Not Required
Status Description: Adequately Regulated
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 15-Oct-2012 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 15-Apr-2011 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 13-May-2011 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: RECPT **F Name:**
Date: 06-Jun-2016 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 31-Mar-2011 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: FLDRUN **F Name:**
Date: 26-Mar-2012 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	30-Nov-2011 RLFA				L Name:	
		Site Visit or Office Follow-up Follow-up Office Response				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	RECPT 29-Apr-2011 RNFE				F Name: L Name:	
		Release Notification Transmittal, Notice, or Notification Received				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	APORMD 13-May-2011 IRA				F Name: L Name:	
		Immediate Response Action Oral Approval of a Modified Plan				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	TSAUD 01-Aug-2013 IRA				F Name: L Name:	
		Immediate Response Action Level I - Technical Screen Audit				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	ADQREG 29-Apr-2011 RAONR				F Name: L Name:	
		RAO Not Required Adequately Regulated				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	REPORT 29-Apr-2011 RNF				F Name: L Name:	
		Release Notification Form Received Reportable Release under MGL 21E				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	APWRIT 25-May-2011 IRA				F Name: L Name:	
		Immediate Response Action Written Approval of Plan				
Status: Date: Action: Action Description: Status Description: RAO Class: RAO Class Desc:	PLANMD 29-Apr-2011 IRA				F Name: L Name:	
		Immediate Response Action Modified Revised or Updated Plan Received				
Status: Date: Action: Action Description: Status Description: RAO Class:	STRCVD 28-Nov-2011 IRA				F Name: L Name:	
		Immediate Response Action Status or Interim Report Received				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:

Status: ADQREG **F Name:**
Date: 28-Nov-2011 **L Name:**
Action: RAONR
Action Description: RAO Not Required
Status Description: Adequately Regulated
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 03-Apr-2012 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: IHEVAL **F Name:**
Date: 29-Apr-2011 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Imminent Hazard Evaluation Received
RAO Class:
RAO Class Desc:

Status: APORAL **F Name:**
Date: 31-Mar-2011 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: ADQREG **Phase:**
Current St Desc: Adequately Regulated **RAO Class:**
Current Date: 15-Oct-2012 **OHM:** Hazardous Material
OFC Notification: 31-Mar-2011
Phase Desc:
RAO Class Desc:
Other Rela:

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RTN: 3-0023624 **Phase:**
Compliance Date: 12/12/2016 **RAO Class:**
Compliance Status: ADEQUATE REG **Chemical Type:** Oil and Hazardous Material
Compl Status Desc: Adequately Regulated **Location Type:** MUNICIPAL, ROADWAY
Notification Date: 2/20/2004 **Site Name (BWSC):** BELL TELL MANHOLE 206
Source: UNKNOWN **Address (BWSC):** 20 BOSTON POST RD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): BELL TELL MANHOLE 206 **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 20 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0023624>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0023624>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: TOTAL PETROLEUM HYDROCARBONS (TPH)
Amount:
Units:

Chemical: METHANE
Amount:
Units:

Action Information (BWSC)

Status: APWRIT **F Name:**
Date: 16-Feb-2007 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Approval of Plan
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 07-May-2004 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 07-Jul-2004 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 30-Jul-2010 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: PLANWR **F Name:**
Date: 07-Jul-2004 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

Status: STMRET **F Name:**
Date: 26-May-2005 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Submittal Retracted
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 29-Mar-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	ADQREG				F Name:	
Date:	13-Jan-2005				L Name:	
Action:	RAONR					
Action Description:			RAO Not Required			
Status Description:			Adequately Regulated			
RAO Class:						
RAO Class Desc:						
Status:	ADQREG				F Name:	
Date:	06-Oct-2008				L Name:	
Action:	RAONR					
Action Description:			RAO Not Required			
Status Description:			Adequately Regulated			
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	20-Feb-2004				L Name:	
Action:	REL					
Action Description:			Release Disposition			
Status Description:			Reportable Release under MGL 21E			
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	23-Jan-2007				L Name:	
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	10-Jan-2005				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Completion Statement Received			
RAO Class:						
RAO Class Desc:						
Status:	IHEVAL				F Name:	
Date:	10-Jan-2005				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Imminent Hazard Evaluation Received			
RAO Class:						
RAO Class Desc:						
Status:	IHEVAL				F Name:	
Date:	26-May-2005				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Imminent Hazard Evaluation Received			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	05-Apr-2007				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			
Status Description:			Status or Interim Report Received			
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	12-Dec-2016				L Name:	
Action:	IRA					
Action Description:			Immediate Response Action			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	09-Mar-2004				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:						
RAO Class Desc:						
Status:	ADQREG				F Name:	
Date:	30-Jun-2009				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Adequately Regulated					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	05-Mar-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	20-Feb-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:						
RAO Class Desc:						
Status:	PLANWR				F Name:	
Date:	10-Jan-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	ADQREG				F Name:	
Date:	12-Dec-2016				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Adequately Regulated					
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	13-Dec-2016				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	06-Apr-2005				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	13-Jan-2005				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	08-Mar-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	07-Jul-2004				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	APORMD				F Name:	
Date:	08-Mar-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of a Modified Plan					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	28-May-2008				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	13-Jan-2005				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	20-Feb-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	24-Feb-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	22-Mar-2010				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:	IHEVAL				F Name:	
Date:	07-Jul-2004				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Imminent Hazard Evaluation Received					
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	26-May-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	02-Feb-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	30-Jun-2009				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:						
RAO Class Desc:						
Status:	ADQREG				F Name:	
Date:	30-Jul-2010				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Adequately Regulated					
RAO Class:						
RAO Class Desc:						
Status:	FLDRAN				F Name:	
Date:	15-Mar-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Compliance Field Response - Announced					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	06-May-2004				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	25-Jun-2007				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:						
RAO Class Desc:						
Status:	APORMD				F Name:	
Date:	06-Apr-2005				L Name:	
Action:	IRA					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of a Modified Plan				
RAO Class:						
RAO Class Desc:						
Status:	PLANMD				F Name:	
Date:	22-Jun-2016				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Modified Revised or Updated Plan Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	04-Oct-2007				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	06-Oct-2008				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	06-Apr-2005				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	ADQREG	Phase:	
Current St Desc:	Adequately Regulated	RAO Class:	
Current Date:	12-Dec-2016	OHM:	Oil and Hazardous Material
OFC Notification:	20-Feb-2004		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

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Site No:	3-0010426	Initial Status Dt:	2/24/1995
Source:	UST	Official Notifi Dt:	1/12/1994
Release Type:	RAO	Current Date:	7/27/1995
Chemical Type:	Oil	ROA Class:	A1
Category:	72 HR	Phase:	
RAO Class Desc:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Phase Desc:			
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.		
Status Desc:	Response Action Outcome		
Document URL:			
Location Type:	STATE		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemicals Information

Chemical: DIESEL FUEL
Amount:
Units:

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/12/1994
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 07/27/1995
RAO Class: A1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Activity and Use Limitation: NONE

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 07/27/1995
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/21/1994
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 2152
LSP Name: HANSCOM, ALAN D

RAO Detail

Class: A1
Method: N
GW Category: 2
Soil Category: 3
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

139	7 of 9	E	0.37 / 1,967.39	130.20 / -64	SUDBURY TRANSFER STATION 20 BOSTON POST ROAD SUDBURY MA	RELEASE
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RTN: 3-0033503	Phase:
Compliance Date: 8/3/2016	RAO Class:
Compliance Status: ADEQUATE REG	Chemical Type: Hazardous Material
Compl Status Desc: Adequately Regulated	Location Type: MUNICIPAL
Notification Date: 4/5/2016	Site Name (BWSC): SUDBURY TRANSFER STATION
Source: LANDFILL, METHANE	Address (BWSC): 20 BOSTON POST ROAD
Reporting Category: TWO HR	Town (BWSC): SUDBURY
Site (EEA Data): SUDBURY TRANSFER STATION	Zip Code (BWSC):
Rel Add(EEA Data): 20 BOSTON POST ROAD	OFC Town (BWSC): SUDBURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0033503>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0033503>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: METHANE
Amount: 22
Units: %LEL

Action Information (BWSC)

Status: PLANWR **F Name:**
Date: 03-Aug-2016 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 08-Aug-2016 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 05-Apr-2016 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: ADQREG **F Name:**
Date: 03-Aug-2016 **L Name:**
Action: RAONR
Action Description: RAO Not Required
Status Description: Adequately Regulated
RAO Class:
RAO Class Desc:

Status: APORAL **F Name:**
Date: 05-Apr-2016 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class:
RAO Class Desc:

Status: ISSUED **F Name:**
Date: 02-Jun-2016 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Prim ID:					Category:	TWO HR
Current Status:	ADQREG				Phase:	
Current St Desc:	Adequately Regulated				RAO Class:	
Current Date:	03-Aug-2016				OHM:	Hazardous Material
OFC Notification:	05-Apr-2016					
Phase Desc:						
RAO Class Desc:						
Other Rela:						

[139](#) 8 of 9 E 0.37 / 1,967.39 130.20 / -64 DPW TRANSFER STATION 20 BOSTON POST RD SUDBURY MA RELEASE

RTN: 3-0017083 **Phase:**
Compliance Date: 4/30/1999 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** MUNICIPAL
Notification Date: 7/24/1998 **Site Name (BWSC):** DPW TRANSFER STATION
Source: AST **Address (BWSC):** 20 BOSTON POST RD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): DPW TRANSFER STATION **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): 20 BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0017083>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0017083>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 100
Units: GAL

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 03-May-1999 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 20-Nov-1998 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 24-Sep-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 24-Jul-1998 **L Name:**
Action: IRA
Action Description: Immediate Response Action

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	PLANWR				F Name:	
Date:	24-Sep-1998				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	27-Aug-1998				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	24-Jul-1998				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RAORCD				F Name:	
Date:	30-Apr-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	30-Apr-1999	OHM:	Oil
OFC Notification:	24-Jul-1998		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

139	9 of 9	E	0.37 / 1,967.39	130.20 / -64	SUDBURY LANDFILL 20 BOSTON POST ROAD SUDBURY MA	RELEASE
RTN:	3-0034148					Phase:
Compliance Date:	8/7/2017					RAO Class:
Compliance Status:	PSNC					Chemical Type:
Compl Status Desc:	Permanent Solution with No Conditions					Location Type:
Notification Date:	3/29/2017					Site Name (BWSC):
Source:	UNKNOWN					Address (BWSC):
Reporting Category:	TWO HR					Town (BWSC):
Site (EEA Data):	SUDBURY LANDFILL					Zip Code (BWSC):
Rel Add(EEA Data):	20 BOSTON POST ROAD					OFC Town (BWSC):
Town (EEA Data):	SUDBURY					
Phase Desc:						
RAO Class Desc:	Permanent Solution with No Conditions					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0034148					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0034148					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 508
Units: %LEL

Chemical: METHANE
Amount: 508
Units: %LEL

Action Information (BWSC)

Status: PLANWR **F Name:**
Date: 06-Jul-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: TSAUD **F Name:**
Date: 11-Jul-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: ISSUED **F Name:**
Date: 24-May-2017 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD **F Name:**
Date: 07-Aug-2017 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: REPORT **F Name:**
Date: 24-Jul-2017 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: APORAL **F Name:**
Date: 29-Mar-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: IHEVAL **F Name:**
Date: 06-Jul-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Imminent Hazard Evaluation Received
RAO Class: PN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		Permanent Solution with No Conditions				
Status:	ADQREG				F Name:	
Date:	06-Jul-2017				L Name:	
Action:	RAONR					
Action Description:	RAO Not Required					
Status Description:	Adequately Regulated					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	RECPT				F Name:	
Date:	24-Jul-2017				L Name:	
Action:	RNFE					
Action Description:	Release Notification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	CSRCVD				F Name:	
Date:	02-Aug-2017				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	REPORT				F Name:	
Date:	29-Mar-2017				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	PSNC	Phase:	
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	07-Aug-2017	OHM:	Oil and Hazardous Material
OFC Notification:	29-Mar-2017		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Other Rela:			

[140](#) 1 of 1 E 0.38 / 1,990.43 128.72 / -65 NO LOCATION AID 83 BOSTON POST RD SUDBURY MA RELEASE

RTN:	3-0021843	Phase:	
Compliance Date:	7/16/2002	RAO Class:	
Compliance Status:	DPS	Chemical Type:	Hazardous Material
Compl Status Desc:	Downgradient Property Status	Location Type:	
Notification Date:	6/24/2002	Site Name (BWSC):	NO LOCATION AID
Source:		Address (BWSC):	83 BOSTON POST RD
Reporting Category:	120 DY	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	83 BOSTON POST RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0021843		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0021843		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Chemical Information (BWSC)

Chemical: BENZENE
 Amount: 7.15
 Units: UG/L

Action Information (BWSC)

Status: FEEREC F Name:
 Date: 15-Jul-2002 L Name:
 Action: DPS
 Action Description: Downgradient Property Status
 Status Description: Fee Received
 RAO Class:
 RAO Class Desc:

Status: RECPT F Name:
 Date: 16-Jul-2002 L Name:
 Action: DPS
 Action Description: Downgradient Property Status
 Status Description: Transmittal, Notice, or Notification Received
 RAO Class:
 RAO Class Desc:

Status: ISSUED F Name:
 Date: 15-Aug-2002 L Name:
 Action: NOR
 Action Description: Notice of Responsibility
 Status Description: Correspondence Issued
 RAO Class:
 RAO Class Desc:

Status: REPORT F Name:
 Date: 24-Jun-2002 L Name:
 Action: RNF
 Action Description: Release Notification Form Received
 Status Description: Reportable Release under MGL 21E
 RAO Class:
 RAO Class Desc:

Status: REPORT F Name:
 Date: 24-Jun-2002 L Name:
 Action: REL
 Action Description: Release Disposition
 Status Description: Reportable Release under MGL 21E
 RAO Class:
 RAO Class Desc:

Release (BWSC) Detail

Prim ID: Category: 120 DY
 Current Status: DPS Phase:
 Current St Desc: Downgradient Property Status RAO Class:
 Current Date: 16-Jul-2002 OHM: Hazardous Material
 OFC Notification: 24-Jun-2002
 Phase Desc:
 RAO Class Desc:
 Other Rela:

141	1 of 5	W	0.41 / 2,155.67	211.04 / 17	TANK REMOVAL 43 BROAD ST. HUDSON MA	HIST LUST
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Spill ID: C92-0247 Repo Units Spilled: -----
 Site ID: 0000 Act. Qty Spilled: UNKNOWN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Case Closed:	YES				Act. Units Spilled: -----	
LUST:	NO				Spill Date:	
Incident:	OTHER RELEASE >				Spill Time:	
Other Incident:	TANK JOB				Rport Date:	
Source:	U.S.T.				Rport Time: 09:57AM	
Other Source:					Notifier: ED ALLCOCK, INDEP. CABLE	
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	VIRGIN				First IR Form:	
Material:	#6 FUEL OIL				Staff Lead: PHILLIPS, B	
Other Material:					Category:	
Enviro Impact:	SOIL				Days For Case: 165	
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor: NOT USED	
PCB Ranges:	NONE				Referral Divisions: NO	
Reported Qty Spilled:		UNKNOWN				
CAS # for Haz Waste:						
SPL Info. 1st Entered:						
SPL Info. Last Entered:						

[141](#) 2 of 5 **W** 0.41 / 2,155.67 211.04 / 17 **HUDSON WORSLED CO FORMER** **LUST**
43 BROAD ST
HUDSON MA

RTN: 2-0012725 **Phase:**
Compliance Status: RAO **Location Type(s):** COMMERCIAL
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** HUDSON WORSLED CO FORMER
Compliance Date: 5/28/1999 **Address (BWSC):** 43 BROAD ST
Notification Date: 3/24/1999 **Town (BWSC):** HUDSON
RAO Class: A2 **Zip Code (BWSC):** 01749-0000
Chemical Type: Oil **OFC Town (BWSC):** HUDSON
Reporting Category: 72 HR **Source(s):** UST
Site Name (EEA Data Portal): HUDSON WORSLED CO FORMER
Release Add (EEA Data Portal): 43 BROAD ST
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012725>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012725>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A2
Current Date: 28-May-1999 **OHM:** Oil
OFC Notification: 24-Mar-1999
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Chemical: GASOLINE
Amount: 210
Units: PPMV

Action Information

Date: 28-May-1999 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		RAO Statement Received (retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	24-Mar-1999				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	21-Oct-1999				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NAFNVD					
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	24-Mar-1999				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	APORAL					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	29-Mar-1999				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	PLANMD					
Status Description:	Modified Revised or Updated Plan Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	16-Sep-1999				First Name:	
Action:	AUDCOM				Last Name:	
Action Description:						
Status:	NOA					
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	28-May-1999				First Name:	
Action:	RNF				Last Name:	
Action Description:	Release Notification Form Received					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Date:	14-Apr-1999				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

[141](#) 3 of 5

W

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211.04 /
17

INDEPENDENT CABLE
43 BROAD ST
HUDSON MA

RELEASE

RTN: 2-0010063
Compliance Date: 10/3/1994
Compliance Status: RAO
Compl Status Desc: Response Action Outcome

Phase:
RAO Class: A1
Chemical Type: Oil
Location Type: COMMERCIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Notification Date:	11/2/1993				Site Name (BWSC):	INDEPENDENT CABLE
Source:	PIPE				Address (BWSC):	43 BROAD ST
Reporting Category:	TWO HR				Town (BWSC):	HUDSON
Site (EEA Data):	INDEPENDENT CABLE				Zip Code (BWSC):	01749
Rel Add(EEA Data):	43 BROAD ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010063					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010063					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical:	PETROLATUM
Amount:	55
Units:	GAL

Chemical:	UNKNOWN CHEMICAL OF TYPE - OIL
Amount:	50
Units:	GAL

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	02-Nov-1993	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLOFF	F Name:	
Date:	11-Oct-1994	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FEEREC	F Name:	
Date:	02-Sep-1997	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Fee Received		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RAORCD	F Name:	
Date:	03-Oct-1994	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	CSRCVD	F Name:	
Date:	04-Oct-1994	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Completion Statement Received		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	NON				F Name:	
Date:	11-Jul-1994				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	ISSUED				F Name:	
Date:	02-Nov-1993				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	
Date:	02-Nov-1993				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	
Date:	14-Oct-1994				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	ISSUED				F Name:	
Date:	19-Sep-1994				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	03-Oct-1994	OHM:	Oil
OFC Notification:	02-Nov-1993		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Other Rela:			

[141](#) 4 of 5 **W** 0.41 / 2,155.67 211.04 / 17 **HUDSON WORSLED CO FORMER** **LST**
43 BROAD ST
HUDSON MA 01749-0000

Site No:	2-0012725	Initial Status Dt:	3/24/2000
Source:	UST	Official Notifi Dt:	3/24/1999

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release Type:	RAO	Current Date:	5/28/1999	
Chemical Type:	Oil	ROA Class:	A2	
Category:	72 HR	Phase:		
ROA Class Desc:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.			
Phase Desc:				
Release Type Desc:	(Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.			
Status Desc:	Response Action Outcome			
Document URL:	http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0012725			
Location Type:	COMMERCIAL			

Chemicals Information

Chemical:	GASOLINE
Amount:	210
Units:	PPMV

Response Action

Response Action Type:	RAO Response Action Outcome - RAO
Status:	RAORCD RAO Statement Received
Submittal Date:	05/28/1999
RAO Class:	A2
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Activity and Use Limitation:

Response Action Type:	IRA Immediate Response Action
Status:	PLANMD Modified Revised or Updated Plan Received
Submittal Date:	03/29/1999
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	REL Potential Release or Threat of Release
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	03/24/1999
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Response Action Type:	RNF Release Notification Form Received
Status:	REPORT Reportable Release or Threat of Release
Submittal Date:	05/28/1999
RAO Class:	
RAO Description:	
Activity and Use Limitation:	

Licensed Site Professional

LSP No:	4075
LSP Name:	LUBY, THOMAS P

RAO Detail

Class:	A2
Method:	1
GW Category:	2
Soil Category:	3
RAO Description:	Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
141	5 of 5	W	0.41 / 2,155.67	211.04 / 17	HUDSON WORSLED CO FORMER 43 BROAD ST HUDSON MA	RELEASE

RTN: 2-0012725
Compliance Date: 5/28/1999
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/24/1999
Source: UST
Reporting Category: 72 HR
Site (EEA Data): HUDSON WORSLED CO FORMER
Rel Add(EEA Data): 43 BROAD ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeonline.eea.state.ma.us/Portal#!/wastesite/2-0012725>
Docs URL: <https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012725>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 210
Units: PPMV

Action Information (BWSC)

Status: RAORCD
Date: 28-May-1999
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 24-Mar-1999
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 28-May-1999
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: NOA
Date: 16-Sep-1999
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ISSUED
Date: 14-Apr-1999
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 24-Mar-1999 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANMD **F Name:**
Date: 29-Mar-1999 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Modified Revised or Updated Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NAFNVD **F Name:**
Date: 21-Oct-1999 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 28-May-1999 **OHM:** Oil
OFC Notification: 24-Mar-1999
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

142	1 of 2	E	0.38 / 2,014.85	128.47 / -65	MA HWY DEPT DEPOT RT 20 BOSTON POST RD SUDBURY MA	LUST
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RTN: 3-0010426 **Phase:**
Compliance Status: RAO **Location Type(s):** STATE
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** MA HWY DEPT DEPOT
Compliance Date: 7/27/1995 **Address (BWSC):** RT 20 BOSTON POST RD
Notification Date: 1/12/1994 **Town (BWSC):** SUDBURY
RAO Class: A1 **Zip Code (BWSC):** 01776-0000
Chemical Type: Oil **OFC Town (BWSC):** SUDBURY
Reporting Category: 72 HR **Source(s):** UST
Site Name (EEA Data Portal): MA HWY DEPT DEPOT
Release Add (EEA Data Portal): RT 20 BOSTON POST RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0010426>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0010426>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A1
Current Date: 27-Jul-1995 **OHM:** Oil

OFC Notification: 12-Jan-1994
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Chemical Information

Chemical: DIESEL FUEL
Amount:
Units:

Action Information

Date: 06-Sep-1994 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 03-Jan-1995 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 30-Mar-1995 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 12-Jan-1994 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 12-Jan-1994 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 21-Sep-1994 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 27-Jul-1995 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 03-Feb-1994 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 03-Aug-1995 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 27-Jul-1995 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 01-Nov-1994 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APWRIT
Status Description: Written Approval of Plan
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 06-Sep-1994 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: PLANWR
Status Description: Written Plan Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

[142](#) 2 of 2

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0.38 /
2,014.85

128.47 /
-65

MA HWY DEPT DEPOT
RT 20 BOSTON POST RD
SUDBURY MA

RELEASE

RTN: 3-0010426 **Phase:**
Compliance Date: 7/27/1995 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** STATE
Notification Date: 1/12/1994 **Site Name (BWSC):** MA HWY DEPT DEPOT
Source: UST **Address (BWSC):** RT 20 BOSTON POST RD
Reporting Category: 72 HR **Town (BWSC):** SUDBURY
Site (EEA Data): MA HWY DEPT DEPOT **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): RT 20 BOSTON POST RD **OFC Town (BWSC):** SUDBURY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0010426>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0010426>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount:
Units:

Action Information (BWSC)

Status: CSRCVD **F Name:**
Date: 27-Jul-1995 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: CSRCVD **F Name:**
Date: 06-Sep-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: PLANWR **F Name:**
Date: 06-Sep-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: STRCVD **F Name:**
Date: 03-Jan-1995 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 21-Sep-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 03-Aug-1995 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	RAORCD				F Name:	
Date:	27-Jul-1995				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	APORAL				F Name:	
Date:	12-Jan-1994				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	ISSUED				F Name:	
Date:	03-Feb-1994				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	APWRIT				F Name:	
Date:	01-Nov-1994				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Written Approval of Plan					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	STRCVD				F Name:	
Date:	30-Mar-1995				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					
Status:	REPORT				F Name:	
Date:	12-Jan-1994				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A1					
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.					

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A1
Current Date:	27-Jul-1995	OHM:	Oil
OFC Notification:	12-Jan-1994		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Other Rela:

143	1 of 2	W	0.43 / 2,277.42	211.72 / 18	TEST DEVICES INC 6 LORING ST HUDSON MA	LAST
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RTN: 2-0011703
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 6/16/1997
Notification Date: 4/24/1997
RAO Class: A1
Chemical Type: Oil
Reporting Category: TWO HR
Site Name (EEA Data Portal): TEST DEVICES INC
Release Add (EEA Data Portal): 6 LORING ST
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011703>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011703>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 16-Jun-1997
OFC Notification: 24-Apr-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Category: TWO HR
Phase:
RAO Class: A1
OHM: Oil

Other Rela:

Chemical Information

Chemical: LUBRICATING OIL
Amount:
Units:

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Chemical: #2 FUEL OIL
Amount:
Units:

Action Information

Date: 16-Jun-1997
Action: RNF
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
First Name:
Last Name:

Date: 16-Jun-1997
Action: RAO
Action Description: Response Action Outcome -RAO
First Name:
Last Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 24-Apr-1997 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Date: 09-May-1997 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

143	2 of 2	W	0.43 / 2,277.42	211.72 / 18	TEST DEVICES INC 6 LORING ST HUDSON MA	RELEASE
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RTN: 2-0011703 **Phase:**
Compliance Date: 6/16/1997 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** INDUSTRIAL
Notification Date: 4/24/1997 **Site Name (BWSC):** TEST DEVICES INC
Source: AST, DRUMS **Address (BWSC):** 6 LORING ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): TEST DEVICES INC **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 6 LORING ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011703>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011703>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount:
Units:

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Chemical: LUBRICATING OIL
Amount:
Units:

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 09-May-1997 **L Name:**
Action: NOR
Action Description: Notice of Responsibility

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 16-Jun-1997 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 16-Jun-1997 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 24-Apr-1997 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 16-Jun-1997 **OHM:** Oil
OFC Notification: 24-Apr-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

144	1 of 4	W	0.43 / 2,282.87	214.38 / 21	H LAROSEE AND SONS INC 15 BROAD STREET HUDSON MA 017492501	CERCLIS
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Site ID: 0106041 **RNPL Status Code:** N
Site EPA ID: MAD980731624 **NPL Status:** Not on the NPL
Site Street Address 2: **RFED Facility Code:** N
Site County Name: MIDDLESEX **RFED Facility Desc:** Not a Federal Facility
Site FIPS Code: 25017 **USGS Hydro Unit No.:**
Region Code: 01 **Site Cong. Dist. Code:** 06
Site SMSA No.: **ROT Desc:**
Site Prim. Latitude: +42.39081 **FR NPL Update No.:**
Site Prim. Longitude: -071.5641 **RFRA Code:**
Lat Long Source:
RNON NPL Status Desc: Removal Only Site (No Site Assessment Work Needed)

CERCLIS Site Contact Name(s)

Person ID: 1270187.00
First Name: Nancy
Last Name: Smith
Phone No.: 6179181436

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Email:

CERCLIS Site Contact Name(s)

Person ID: 1270299.00
First Name: TED
Last Name: BAZENAS
Phone No.: 6179181230
Email: bazenas.edward@epamail.epa.gov

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	5/23/2013 00:00:00
RAT Code:	AR	Act Complete Date:	
RAT Short Name:	ADMM REC	AGT Order No.:	580
RAT Name:	ADMINISTRATIVE RECORDS	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:			

SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.

Site Desc:
Site Alias:

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			
RAT Def:			
Site Desc:	No description available		

Site Alias: LAROSSEE H AND SONS,15 BROAD STREET,HUDSON,MA,017492501;

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	002	Act Start Date:	4/25/2012 00:00:00
RAT Code:	RS	Act Complete Date:	6/26/2012 00:00:00
RAT Short Name:	RV ASSESS	AGT Order No.:	30
RAT Name:	REMOVAL ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		
RAT Def:			

Collecting site characteristics to determine whether or not a removal must be performed.

Site Desc:
Site Alias:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VU	Act Complete Date:	4/11/2012 13:53:26
RAT Short Name:	UNARCHIVE	AGT Order No.:	1501
RAT Name:	SITE UNARCHIVED	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	A decision is made that the site should no longer be archived because further activity may be necessary at the site.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	8/4/2010 00:00:00
RAT Code:	RS	Act Complete Date:	3/3/2011 00:00:00
RAT Short Name:	RV ASSESS	AGT Order No.:	30
RAT Name:	REMOVAL ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		
RAT Def:	Collecting site characteristics to determine whether or not a removal must be performed.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	9/16/2011 00:00:00
RAT Short Name:	ARCH SITE	AGT Order No.:	1500
RAT Name:	ARCHIVE SITE	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The decision is made that no further activity is planned at the site.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	PRP Rsp Fed
Act Code ID:	001	Act Start Date:	8/29/2012 00:00:00
RAT Code:	BB	Act Complete Date:	1/24/2013 00:00:00
RAT Short Name:	PRP RV	AGT Order No.:	90
RAT Name:	POTENTIALLY RESPONSIBLE PARTY REMOVAL	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	V	SH Lead:	
SPA Code:	08		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAT Def: Provides for oversight of Potentially Responsible Party (PRP) response action for removals, including all activities for monitoring and supervising the performance of PRPs to determine whether such performance is consistent with the requirements of the administrative orders on consent, unilateral administrative orders, consent decrees, judicial decrees, information agreements, and compliance schedules.

Site Desc:
Site Alias:

144	2 of 4	W	0.43 / 2,282.87	214.38 / 21	PROPERTY 15 BROAD STREET HUDSON MA	RELEASE
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RTN:	2-0018830	Phase:	
Compliance Date:	3/10/2014	RAO Class:	
Compliance Status:	TIER1D	Chemical Type:	Hazardous Material
Compl Status Desc:	Tier 1D	Location Type:	COMMERCIAL
Notification Date:	3/1/2013	Site Name (BWSC):	PROPERTY
Source:	UNKNOWN	Address (BWSC):	15 BROAD STREET
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	PROPERTY	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	15 BROAD STREET	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:			
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018830		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018830		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	CADMIUM
Amount:	8
Units:	MG/KG
Chemical:	TOTAL CHROMIUM
Amount:	130
Units:	MG/KG
Chemical:	TRICHLOROETHENE
Amount:	200
Units:	MG/KG

Action Information (BWSC)

Status:	REPORT	F Name:	
Date:	01-Mar-2013	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:			
RAO Class Desc:			
Status:	FLDDO	F Name:	
Date:	16-Jun-2017	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Field Response - Direct Oversight		
RAO Class:			
RAO Class Desc:			
Status:	FOLFLD	F Name:	
Date:	29-Jun-2017	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up or Other Field Response		
RAO Class:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		27-Sep-2019			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		PRPMTG			F Name:	
Date:		29-Jun-2017			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Meeting with PRP or PRP Representative			
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		26-Feb-2018			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Follow-up Office Response			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		18-Jul-2017			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		21-Dec-2016			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FLDRAN			F Name:	
Date:		13-Apr-2018			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Compliance Field Response - Announced			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		19-Jul-2017			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FLDDO			F Name:	
Date:		20-Jul-2017			L Name:	
Action:		RLFA				
Action Description:			Site Visit or Office Follow-up			
Status Description:			Field Response - Direct Oversight			
RAO Class:						
RAO Class Desc:						
Status:		FLDRAN			F Name:	
Date:		16-Jun-2017			L Name:	
Action:		RLFA				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Announced	
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	16-Jun-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up or Other Field Response	
RAO Class:						
RAO Class Desc:						
Status:	FOLFLD				F Name:	
Date:	14-Dec-2016				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up or Other Field Response	
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	26-Nov-2013				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	27-Dec-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	07-Jan-2014				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Anniversary Letter Sent	
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	05-Apr-2013				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:						
RAO Class Desc:						
Status:	FLDDO				F Name:	
Date:	17-Jul-2017				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Field Response - Direct Oversight	
RAO Class:						
RAO Class Desc:						
Status:	FOLOFF				F Name:	
Date:	25-Jun-2018				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:		FOLOFF			F Name:	
Date:		19-Jul-2018			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:		NON			F Name:	
Date:		19-Oct-2015			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:		SIGACC			F Name:	
Date:		12-Dec-2016			L Name:	
Action:		C&E				
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		12-Feb-2018			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		03-May-2016			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:		FOLOFF			F Name:	
Date:		03-May-2018			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:						
RAO Class Desc:						
Status:		PRPMTG			F Name:	
Date:		20-Dec-2018			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Meeting with PRP or PRP Representative				
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		04-Jan-2017			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up or Other Field Response				
RAO Class:						
RAO Class Desc:						
Status:		FOLFLD			F Name:	
Date:		28-Dec-2016			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up or Other Field Response				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:
RAO Class Desc:

Status: FOLOFF F Name:
Date: 06-Apr-2018 L Name:
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: PRPMTG F Name:
Date: 03-Dec-2019 L Name:
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Meeting with PRP or PRP Representative
RAO Class:
RAO Class Desc:

Status: RECPT F Name:
Date: 01-Mar-2013 L Name:
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Status: ISSUED F Name:
Date: 19-Oct-2015 L Name:
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:
Current Status: TIER1D Category: 120 DY
Current St Desc: Tier 1D Phase:
Current Date: 10-Mar-2014 RAO Class:
OFC Notification: 01-Mar-2013 OHM: Hazardous Material
Phase Desc:
RAO Class Desc:
Other Rela:

144	3 of 4	W	0.43 / 2,282.87	214.38 / 21	H LAROSEE AND SONS INC 15 BROAD STREET HUDSON MA 01749-2501	SEMS
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EPA ID: MAD980731624 County: MIDDLESEX
Site ID: Latitude:
NPL: Longitude:
Federal Facility: County Name(MAP): MIDDLESEX
Non NPL Status: Latitude83(MAP): 42.39041
SuperF Alt Agrmnt: Longitude83(MAP): -71.56404
FIPS Code: Region:
Date SEMS List: 26-AUG-2020 Cong District:
Primary Name(MAP): LAROSEE H & SONS INC
Loc Address(MAP): 15 BROAD STREET
City Name(MAP): HUDSON
State Code(MAP): MA
Postal Code(MAP): 01749-2501
Site Name: H LAROSEE AND SONS INC
Street Address: 15 BROAD STREET
Street Address 2:
City: HUDSON

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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State: MA
 Zip: 01749-2501

Site Level Information

Site ID:	0106041	Superfund Alt Agmt:	No
NPL:	Not on the NPL	FIPS Code:	25017
Federal Facility:	No	Cong District:	06
FF Docket:	No	Region:	01
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)		

Action Information

Site ID:	0106041	Start Actual:	
Operable Units:	00	Finish Actual:	09/16/2011
Action Code:	VS	Qual:	
Action Name:	ARCH SITE	Curr Action Lead:	EPA Perf In-Hse
SEQ:	1		
Site ID:	0106041	Start Actual:	07/24/2017
Operable Units:	00	Finish Actual:	08/10/2017
Action Code:	RS	Qual:	
Action Name:	RV ASSESS	Curr Action Lead:	EPA Perf
SEQ:	3		
Site ID:	0106041	Start Actual:	09/25/2017
Operable Units:	00	Finish Actual:	05/11/2018
Action Code:	RV	Qual:	C
Action Name:	RMVL	Curr Action Lead:	EPA Perf
SEQ:	1		
Site ID:	0106041	Start Actual:	05/23/2013
Operable Units:	00	Finish Actual:	05/24/2013
Action Code:	AR	Qual:	V
Action Name:	ADMIN REC	Curr Action Lead:	EPA Perf
SEQ:	1		
Site ID:	0106041	Start Actual:	
Operable Units:	00	Finish Actual:	04/11/2012
Action Code:	VU	Qual:	
Action Name:	UNARCHIVE	Curr Action Lead:	EPA Perf In-Hse
SEQ:	1		
Site ID:	0106041	Start Actual:	08/04/2010
Operable Units:	00	Finish Actual:	03/03/2011
Action Code:	RS	Qual:	
Action Name:	RV ASSESS	Curr Action Lead:	EPA Perf
SEQ:	1		
Site ID:	0106041	Start Actual:	04/25/2012
Operable Units:	00	Finish Actual:	06/26/2012
Action Code:	RS	Qual:	
Action Name:	RV ASSESS	Curr Action Lead:	EPA Perf
SEQ:	2		
Site ID:	0106041	Start Actual:	08/29/2012
Operable Units:	00	Finish Actual:	01/24/2013
Action Code:	BB	Qual:	C
Action Name:	PRP RV	Curr Action Lead:	EPA Ovrsght
SEQ:	1		

REST Information

Registry ID:	110009589515	Ref Point Desc:	CENTER OF A FACILITY OR STATION
Active Status:	NOT ON THE NPL	HUC8 Code:	01070005

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Interest Type: SUPERFUND (NON-NPL) Public Ind: Y Fac Url: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110009589515 Program Url: Pgm Report: no data yet Collect Mth Desc: ADDRESS MATCHING-HOUSE NUMBER Accuracy Value: 30						
144	4 of 4	W	0.43 / 2,282.87	214.38 / 21	H. LaRosee & Sons, Inc. 15 Broad Street Hudson MA	BROWNFIELDS
RTN: 2-0018830 Rao: Other RTNs: Aul: Map Par ID: Cocs: Loc ID: Former Use: MCP Status: TIER1D Current Use: Site Name(MassDEP): H. LaRosee & Sons, Inc. Total Acreage: Address (MassDEP): 15 Broad Street Shape Le: City (MassDEP): Hudson Shape Ar: Site Name (CERO): Acres: Address (CERO): Shape Are: City (CERO): Shape Len: Data Source: MassDEP Brownfields List Current Owner: Fact Sheet:						
145	1 of 3	W	0.45 / 2,386.69	208.56 / 15	SHELL GASOLINE STATION 181 MAIN ST HUDSON MA	LUST
RTN: 2-0016273 Phase: Compliance Status: RAO Location Type(s): COMMERCIAL Compl Status Desc: Response Action Outcome Site Name (BWSC): SHELL GASOLINE STATION Compliance Date: 5/29/2007 Address (BWSC): 181 MAIN ST Notification Date: 6/9/2006 Town (BWSC): HUDSON RAO Class: A2 Zip Code (BWSC): 01749-0000 Chemical Type: Oil and Hazardous Material OFC Town (BWSC): HUDSON Reporting Category: 72 HR Source(s): UST Site Name (EEA Data Portal): SHELL GASOLINE STATION Release Add (EEA Data Portal): 181 MAIN ST City/Town (EEA Data Portal): HUDSON Phase Desc: RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background. Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016273 Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016273 Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)						
Release (BWSC) Detail						
Prim ID: Category: 72 HR Current Status: RAO Phase: Current Status Desc: Response Action Outcome RAO Class: A2 Current Date: 29-May-2007 OHM: Oil and Hazardous Material OFC Notification: 09-Jun-2006 Phase Desc: RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background. Other Rela:						
Chemical Information						
Chemical: TOLUENE Amount: 95.2 Units: MG/KG						

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Amount: 207
Units: MG/KG

Chemical: METHYL TERT BUTYL ETHER
Amount: 37.7
Units: MG/KG

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 642
Units: MG/KG

Action Information

Date: 09-Apr-2007 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 12-Oct-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: STRCVD
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 15-May-2007 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 31-May-2007 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: FEEREC
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 07-Aug-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: PLANWR
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 09-Jun-2006 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 07-Aug-2006 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	18-Dec-2006				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ISSUED					
Status Description:	Correspondence Issued					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	29-May-2007				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	CSRCVD					
Status Description:	Completion Statement Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	29-May-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	RAORCD					
Status Description:	RAO Statement Received (retired)					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	05-Oct-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	05-Jun-2007				First Name:	
Action:	RAO				Last Name:	
Action Description:	Response Action Outcome -RAO					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	09-Jun-2006				First Name:	
Action:	REL				Last Name:	
Action Description:	Release Disposition					
Status:	REPORT					
Status Description:	Reportable Release under MGL 21E					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	17-Nov-2006				First Name:	
Action:	IRA				Last Name:	
Action Description:	Immediate Response Action					
Status:	TSAUD					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Date:	25-Apr-2007				First Name:	
Action:	NOR				Last Name:	
Action Description:	Notice of Responsibility					
Status:	ALSENT					
Status Description:	Anniversary Letter Sent					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
145	2 of 3	W	0.45 / 2,386.69	208.56 / 15	SHELL GASOLINE STATION 181 MAIN ST HUDSON MA 01749-0000	LST

Site No: 2-0016273
Source: UST
Release Type: RAO
Chemical Type: Oil and Hazardous Material
Category: 72 HR
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Phase Desc:
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0016273>
Location Type: COMMERCIAL

Chemicals Information

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Amount: 207
Units: MG/KG

Chemical: METHYL TERT BUTYL ETHER
Amount: 37.7
Units: MG/KG

Chemical: TOLUENE
Amount: 95.2
Units: MG/KG

Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount: 642
Units: MG/KG

Response Action

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 06/05/2007
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/07/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/09/2006
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 05/29/2007
RAO Class:
RAO Description:
Activity and Use Limitation:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Licensed Site Professional

LSP No: 1217
 LSP Name: LANDYN, JOSEPH A

RAO Detail

Class: A2
 Method: 3
 GW Category: 2
 Soil Category: 1
 RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

145	3 of 3	W	0.45 / 2,386.69	208.56 / 15	SHELL GASOLINE STATION 181 MAIN ST HUDSON MA	RELEASE
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RTN:	2-0016273	Phase:	
Compliance Date:	5/29/2007	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	6/9/2006	Site Name (BWSC):	SHELL GASOLINE STATION
Source:	UST	Address (BWSC):	181 MAIN ST
Reporting Category:	72 HR	Town (BWSC):	HUDSON
Site (EEA Data):	SHELL GASOLINE STATION	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	181 MAIN ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016273		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016273		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		
Report Source:			

Chemical Information (BWSC)

Chemical:	TOLUENE
Amount:	95.2
Units:	MG/KG
Chemical:	METHYL TERT BUTYL ETHER
Amount:	37.7
Units:	MG/KG
Chemical:	C5 THRU C8 ALIPHATIC HYDROCARBONS
Amount:	642
Units:	MG/KG
Chemical:	C9 THRU C10 AROMATIC HYDROCARBONS
Amount:	207
Units:	MG/KG

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	09-Jun-2006	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	REPORT				F Name:	
Date:	09-Jun-2006				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	09-Apr-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	07-Aug-2006				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	STRCVD				F Name:	
Date:	12-Oct-2006				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Status or Interim Report Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	05-Oct-2006				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	18-Dec-2006				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	CSRCVD				F Name:	
Date:	29-May-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	15-May-2007				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	FEEREC				F Name:	
Date:	31-May-2007				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ALSENT **F Name:**
Date: 25-Apr-2007 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 29-May-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 05-Jun-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 07-Aug-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 17-Nov-2006 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 29-May-2007 **OHM:** Oil and Hazardous Material
OFC Notification: 09-Jun-2006
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

[146](#)

1 of 2

W

0.45 /
2,357.30

210.87 /
17

TUCK'S SERVICE CENTER
WASHINGTON ST. AND BROAD
ST.
HUDSON MA

HIST LUST

Spill ID: C92-0095
Site ID: 2-0938
Case Closed: YES
LUST: ---
Incident: TANK REMOVAL
Other Incident:
Source: U.S.T.
Other Source:

Repo Units Spilled: -----
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: -----
Spill Date: 3/12/1992
Spill Time: 08:00AM
Rport Date: 3/12/1992
Rport Time: 09:08AM
Notifier: ROBERT SEYMORE, SERVICE S

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	VIRGIN				First IR Form:	3/12/1992
Material:	OTHER MATERIAL -->				Staff Lead:	PHILIPS, B
Other Material:	GASOLINE AND DIESEL				Category:	
Enviro Impact:	SOIL				Days For Case:	139
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor:	NOT USED
PCB Ranges:	NONE				Referral Divisions:	SA
Reported Qty Spilled:		SHEEN				
CAS # for Haz Waste:						
SPL Info. 1st Entered:		4/29/1993				
SPL Info. Last Entered:		4/29/1993				

[146](#) 2 of 2 **W** **0.45 / 2,357.30** **210.87 / 17** **WARMER FUEL OIL CO. BROAD & WASHINGTON ST. HUDSON MA** **HIST LAST**

Spill ID:	C85-0179				Repo Units Spilled:	GALLONS
Site ID:	0000				Act. Qty Spilled:	UNKNOWN
Case Closed:	YES				Act. Units Spilled:	GALLONS
LUST:	NO				Spill Date:	
Incident:	OVERFILL				Spill Time:	03:00PM
Other Incident:					Rport Date:	
Source:	ABOVE-GRND TANK				Rport Time:	03:40PM
Other Source:					Notifier:	GERALD CURLEY, WARMER FUE
Petro/Hazardous:	PETROLEUM				Notifier Phone:	
Virgin/Waste:	VIRGIN				First IR Form:	
Material:	#2 FUEL OIL				Staff Lead:	AHEARN, P
Other Material:					Category:	
Enviro Impact:	SOIL				Days For Case:	6
Other Env. Impact:					Report pre by:	
Contaminated Soil:					Contractor:	NOT USED
PCB Ranges:	NONE				Referral Divisions:	NO
Reported Qty Spilled:		501-1000				
CAS NO for Haz Waste:						
SPL Info. 1st Entered:						
SPL Info. Last Entered:						

[147](#) 1 of 1 **E** **0.52 / 2,727.58** **155.04 / -39** **NO LOCATION AID 6 OLD COUNTY RD SUDBURY MA** **RELEASE**

RTN:	3-0025622				Phase:	
Compliance Date:	1/29/2007				RAO Class:	A2
Compliance Status:	RAO				Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome				Location Type:	
Notification Date:	1/27/2006				Site Name (BWSC):	NO LOCATION AID
Source:					Address (BWSC):	6 OLD COUNTY RD
Reporting Category:	120 DY				Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID				Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	6 OLD COUNTY RD				OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY					
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Info URL:		https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0025622				
Docs URL:		https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtm=3-0025622				
Report Source:		Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)				

Chemical Information (BWSC)

Chemical:	C11 THRU C22 AROMATIC HYDROCARBONS
Amount:	2640
Units:	MG/KG

Chemical: C9 THRU C12 ALIPHATIC HYDROCARBONS
Amount: 1020
Units: MG/KG

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 4590
Units: MG/KG

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 01-Feb-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 27-Jan-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 27-Jan-2006 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 27-Jan-2006 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 10-Feb-2006 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 29-Jan-2007 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 30-Jan-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ALSENT **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 11-Dec-2006 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 18-Dec-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 29-Jan-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 24-May-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 29-Jan-2007 **OHM:** Oil
OFC Notification: 27-Jan-2006
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

148	1 of 1	W	0.46 / 2,424.31	209.06 / 15	KM HIGH STREET LLC 186 MAIN STREET HUDSON MA	RELEASE
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RTN: 2-0019510 **Phase:**
Compliance Date: 8/5/2016 **RAO Class:** PN
Compliance Status: PSNC **Chemical Type:** Oil
Compl Status Desc: Permanent Solution with No Conditions **Location Type:** COMMERCIAL
Notification Date: 5/6/2015 **Site Name (BWSC):** KM HIGH STREET LLC
Source: UNKNOWN **Address (BWSC):** 186 MAIN STREET
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): KM HIGH STREET LLC **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 186 MAIN STREET **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0019510>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0019510>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Amount: 110
 Units: MG/KG

Action Information (BWSC)

Status: RECPT **F Name:**
Date: 22-May-2015 **L Name:**
Action: DPS
Action Description: Downgradient Property Status
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD **F Name:**
Date: 05-Aug-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: NON **F Name:**
Date: 17-Jun-2016 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: FEEREC **F Name:**
Date: 11-Aug-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: REPORT **F Name:**
Date: 06-May-2015 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: ISSUED **F Name:**
Date: 07-Aug-2015 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: TSAUD **F Name:**
Date: 01-Sep-2016 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: RECPT **F Name:**
Date: 06-May-2015 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	PSNC	Phase:	
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	05-Aug-2016	OHM:	Oil
OFC Notification:	06-May-2015		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Other Rela:			

149	1 of 1	ESE	0.45 / 2,355.26	128.45 / -65	NO LOCATION AID 19 HAWTHORNE ROAD SUDBURY MA	RELEASE
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RTN:	3-0030271	Phase:	
Compliance Date:	10/12/2011	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	RESIDENTIAL, ROADWAY, WATERBODY
Notification Date:	8/31/2011	Site Name (BWSC):	NO LOCATION AID
Source:	TRANSFORM	Address (BWSC):	19 HAWTHORNE ROAD
Reporting Category:	TWO HR	Town (BWSC):	SUDBURY
Site (EEA Data):	NO LOCATION AID	Zip Code (BWSC):	01776-3114
Rel Add(EEA Data):	19 HAWTHORNE ROAD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0030271		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0030271		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	MODF NON PCB
Amount:	22
Units:	GAL

Action Information (BWSC)

Status:	TSAUD	F Name:	
Date:	11-Jul-2012	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	31-Aug-2011	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RECPT	F Name:	
Date:	23-Sep-2011	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL
Date: 31-Aug-2011
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: ISSUED
Date: 19-Sep-2011
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 12-Oct-2011
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 23-Sep-2011
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 12-Oct-2011
OFC Notification: 31-Aug-2011
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Category: TWO HR
Phase:
RAO Class: A1
OHM: Oil

Other Rela:

150	1 of 1	E	0.43 / 2,278.26	129.02 / -65	PROPERTY 533 BOSTON POST RD WAYLAND MA	RELEASE
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RTN: 3-0003351
Compliance Date: 8/2/1996
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 8/27/1990
Source: UNCONTAIN
Reporting Category: NONE
Site (EEA Data): PROPERTY
Rel Add(EEA Data): 533 BOSTON POST RD
Town (EEA Data): WAYLAND
Phase Desc:

Phase:
RAO Class:
Chemical Type:
Location Type: FORMER, INDUSTRIAL, MANUFACT
Site Name (BWSC): PROPERTY
Address (BWSC): 533 BOSTON POST RD
Town (BWSC): WAYLAND
Zip Code (BWSC): 01778
OFC Town (BWSC): WAYLAND

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc:
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0003351
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0003351
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status:	ISSUED	F Name:	
Date:	27-Aug-1990	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:			
RAO Class Desc:			

Status:	TCTRNS	F Name:	
Date:	27-Aug-1990	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Valid Transition Site (Retired)		
RAO Class:			
RAO Class Desc:			

Status:	RAOEQ	F Name:	
Date:	02-Aug-1996	L Name:	
Action:	TREGS		
Action Description:			
Status Description:			
RAO Class:			
RAO Class Desc:			

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	
Current Date:	02-Aug-1996	OHM:	
OFC Notification:	27-Aug-1990		
Phase Desc:			
RAO Class Desc:			
Other Rela:			

151	1 of 1	WNW	0.94 / 4,940.34	271.10 / 77	DIESEL FUEL LEAK 133 COX ST HUDSON MA	RELEASE
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RTN:	2-0013998	Phase:	
Compliance Date:	11/9/2001	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL, ROADWAY
Notification Date:	9/20/2001	Site Name (BWSC):	DIESEL FUEL LEAK
Source:	VEHICLE	Address (BWSC):	133 COX ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	DIESEL FUEL LEAK	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	133 COX ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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has been eliminated.
Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013998
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013998
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 45
Units: GAL

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 09-Nov-2001 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 15-Oct-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 09-Nov-2001 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 20-Sep-2001 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 20-Sep-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 09-Nov-2001 **OHM:** Oil
OFC Notification: 20-Sep-2001

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

152	1 of 1	W	0.53 / 2,795.82	209.77 / 16	HOUGHTON STREET LLC 50 HOUGHTON ST HUDSON MA	RELEASE
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RTN:	2-0015202	Phase:	
Compliance Date:	8/9/2004	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	INDUSTRIAL
Notification Date:	4/16/2004	Site Name (BWSC):	HOUGHTON STREET LLC
Source:	DRUMS	Address (BWSC):	50 HOUGHTON ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	HOUGHTON STREET LLC	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	50 HOUGHTON ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015202		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015202		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: MALEIC ACID
Amount:
Units:

Action Information (BWSC)

Status:	TSAUD	F Name:	
Date:	27-Aug-2004	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLFLD	F Name:	
Date:	10-May-2004	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up or Other Field Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLOFF	F Name:	
Date:	04-May-2004	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FLDISS	F Name:	
Date:	16-Apr-2004	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Field NOR Issued				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	
Date:	16-Apr-2004				L Name:	
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	FOLOFF				F Name:	
Date:	20-Apr-2004				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	FOLOFF				F Name:	
Date:	02-Jun-2017				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	RAORCD				F Name:	
Date:	09-Aug-2004				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		RAO Statement Received (retired)				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	FLDD1A				F Name:	
Date:	16-Apr-2004				L Name:	
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Initial Compliance Field Response - Announced				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	APORAL				F Name:	
Date:	16-Apr-2004				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of Plan or Action				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	ISSUED				F Name:	
Date:	23-Jul-2004				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A1				
RAO Class Desc:		A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.				
Status:	REPORT				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 09-Aug-2004 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 23-Apr-2004 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 09-Aug-2004 **OHM:** Hazardous Material
OFC Notification: 16-Apr-2004
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

153	1 of 1	W	0.53 / 2,805.01	212.85 / 19	THOMAS TAYLOR & SONS 52-54 HOUGHTON ST HUDSON MA	RELEASE
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RTN: 2-0000524 **Phase:**
Compliance Date: 3/18/1997 **RAO Class:**
Compliance Status: RAO **Chemical Type:**
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 3/30/1989 **Site Name (BWSC):** THOMAS TAYLOR & SONS
Source: **Address (BWSC):** 52-54 HOUGHTON ST
Reporting Category: NONE **Town (BWSC):** HUDSON
Site (EEA Data): THOMAS TAYLOR & SONS **Zip Code (BWSC):** 01749
Rel Add(EEA Data): 52-54 HOUGHTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000524>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000524>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status: TCTRNS **F Name:**
Date: 30-Mar-1989 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: FOLFLD
Date: 29-Jul-2016
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: ISSUED
Date: 30-Mar-1989
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RAOEQ
Date: 18-Mar-1997
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 18-Mar-1997
OFC Notification: 30-Mar-1989
Phase Desc:
RAO Class Desc:
Other Rela:

Category: NONE
Phase:
RAO Class:
OHM:

154	1 of 1	W	0.53 / 2,783.96	205.79 / 12	SHOE FACTORY FMR 1 HOUGHTON ST HUDSON MA	RELEASE
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RTN: 2-0000922
Compliance Date: 7/30/1999
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 7/13/1992
Source: UNKNOWN
Reporting Category: NONE
Site (EEA Data): SHOE FACTORY FMR
Rel Add(EEA Data): 1 HOUGHTON ST
Town (EEA Data): HUDSON
Phase Desc:

Phase:
RAO Class: B1
Chemical Type: Oil
Location Type: INDUSTRIAL, MANUFACT
Site Name (BWSC): SHOE FACTORY FMR
Address (BWSC): 1 HOUGHTON ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749
OFC Town (BWSC): HUDSON

RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000922>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000922>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	AFUCS				F Name:	
Date:	01-Feb-2002				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	INTLET				F Name:	
Date:	22-May-2001				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NON				F Name:	
Date:	26-Aug-1998				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	ISSUED				F Name:	
Date:	13-Jul-1992				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	RAORCD				F Name:	
Date:	30-Jul-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	FEECRD				F Name:	
Date:	21-Nov-2003				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Not Required - Fee Credited					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	FEEREC				F Name:	
Date:	30-Jul-1999				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REVRCD				F Name:	
Date:	01-Feb-2002				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Revised Statement or Transmittal Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	NAFVIO				F Name:	
Date:	22-May-2001				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	NOA			F Name:		
Date:	22-Feb-2001			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	FLDRAN			F Name:		
Date:	13-Jul-2016			L Name:		
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Announced				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	FOLOFF			F Name:		
Date:	06-Jan-2016			L Name:		
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	INTLET			F Name:		
Date:	26-Aug-1998			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	NON			F Name:		
Date:	22-May-2001			L Name:		
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	TCTRNS			F Name:		
Date:	13-Jul-1992			L Name:		
Action:	REL					
Action Description:		Release Disposition				
Status Description:		Valid Transition Site (Retired)				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	APWRIT			F Name:		
Date:	16-Jul-2001			L Name:		
Action:	AUDCOM					
Action Description:						
Status Description:		Written Approval of Plan				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	FLDRUN			F Name:		
Date:	22-Mar-2001			L Name:		
Action:	RLFA					
Action Description:		Site Visit or Office Follow-up				
Status Description:		Compliance Field Response - Unannounced				
RAO Class:		B1				
RAO Class Desc:		Remedial actions have not been conducted because a level of No Significant Risk exists.				
Status:	FLDRUN			F Name:		
Date:	12-Apr-2016			L Name:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: FOLOFF **F Name:**
Date: 13-Apr-2016 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Status: AFUPLN **F Name:**
Date: 02-Jul-2001 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** B1
Current Date: 30-Jul-1999 **OHM:** Oil
OFC Notification: 13-Jul-1992
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

155	1 of 1	W	0.53 / 2,790.41	198.49 / 5	THOMAS TAYLOR & SONS 49 HOUGHTON ST HUDSON MA	RELEASE
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RTN: 2-0011299 **Phase:**
Compliance Date: 8/19/1996 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 7/3/1996 **Site Name (BWSC):** THOMAS TAYLOR & SONS
Source: UST **Address (BWSC):** 49 HOUGHTON ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): THOMAS TAYLOR & SONS **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 49 HOUGHTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011299>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011299>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: #6 FUEL OIL
Amount: 100
Units: GAL

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 03-Jul-1996 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA					
Action Description:					Immediate Response Action	
Status Description:					Oral Approval of Plan or Action	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	RAORCD				F Name:	
Date:	19-Aug-1996				L Name:	
Action:	RAO					
Action Description:					Response Action Outcome -RAO	
Status Description:					RAO Statement Received (retired)	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	REPORT				F Name:	
Date:	03-Jul-1996				L Name:	
Action:	REL					
Action Description:					Release Disposition	
Status Description:					Reportable Release under MGL 21E	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FOLOFF				F Name:	
Date:	03-Jul-1996				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FOLOFF				F Name:	
Date:	08-Jul-1996				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up Office Response	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FOLFLD				F Name:	
Date:	22-Jan-1997				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Follow-up or Other Field Response	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	FLDRUN				F Name:	
Date:	22-Jan-1997				L Name:	
Action:	RLFA					
Action Description:					Site Visit or Office Follow-up	
Status Description:					Compliance Field Response - Unannounced	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	
Status:	ISSUED				F Name:	
Date:	10-Jul-1996				L Name:	
Action:	NOR					
Action Description:					Notice of Responsibility	
Status Description:					Correspondence Issued	
RAO Class:					A1	
RAO Class Desc:					A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 19-Aug-1996 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 19-Aug-1996 **OHM:** Oil
OFC Notification: 03-Jul-1996
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

156	1 of 1	W	0.54 / 2,861.59	206.18 / 12	FORMER LARKIN LUMBER 136 MAIN STREET HUDSON MA	RELEASE
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RTN: 2-0019349 **Phase:** PHASE II
Compliance Date: 10/18/2016 **RAO Class:** PN
Compliance Status: PSNC **Chemical Type:** Hazardous Material
Compl Status Desc: Permanent Solution with No Conditions **Location Type:** COMMERCIAL
Notification Date: 10/22/2014 **Site Name (BWSC):** FORMER LARKIN LUMBER
Source: UNKNOWN **Address (BWSC):** 136 MAIN STREET
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): FORMER LARKIN LUMBER **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 136 MAIN STREET **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0019349>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0019349>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: ARSENIC
Amount: 45
Units: MG/KG

Chemical: 1,3,5-TRIMETHYLBENZENE
Amount: 14.2
Units: MG/KG

Chemical: NAPHTHALENE
Amount: 6.76
Units: MG/KG

Action Information (BWSC)

Status: FLDD1U **F Name:**
Date: 04-Nov-2014 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: PN

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		Permanent Solution with No Conditions				
Status:	RECPT				F Name:	
Date:	01-Aug-2016				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	CSRCVD				F Name:	
Date:	20-May-2016				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	PSNRCD				F Name:	
Date:	18-Oct-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Permanent Solution with No Conditions					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	RECPT				F Name:	
Date:	20-May-2016				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	TSAUD				F Name:	
Date:	31-Oct-2016				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	RECPT				F Name:	
Date:	27-Jul-2016				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	SHPFAC				F Name:	
Date:	17-Oct-2016				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Remediation was Shipped to a Facility					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	RECPT				F Name:	
Date:	31-Oct-2014				L Name:	
Action:	RNFE					
Action Description:	Release Notification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	ALSENT				F Name:	
Date:	06-Aug-2015				L Name:	
Action:	NOR					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Notice of Responsibility				
Status Description:		Anniversary Letter Sent				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		ISSUED			F Name:	
Date:		26-Nov-2014			L Name:	
Action:		NOR				
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		LEGNOT			F Name:	
Date:		09-Jun-2016			L Name:	
Action:		TCLASS				
Action Description:		Tier Classification				
Status Description:		Legal Notice Published				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		PLANWR			F Name:	
Date:		31-May-2016			L Name:	
Action:		RAM				
Action Description:		Release Abatement Measure				
Status Description:		Written Plan Received				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		REPORT			F Name:	
Date:		22-Oct-2014			L Name:	
Action:		REL				
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		SHPFAC			F Name:	
Date:		26-Aug-2016			L Name:	
Action:		BOL				
Action Description:		Bill of Lading				
Status Description:		Remediation was Shipped to a Facility				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		FOLOFF			F Name:	
Date:		12-Dec-2014			L Name:	
Action:		RLFA				
Action Description:		Site Visit or Office Follow-up				
Status Description:		Follow-up Office Response				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				
Status:		TIERII			F Name:	
Date:		20-May-2016			L Name:	
Action:		TCLASS				
Action Description:		Tier Classification				
Status Description:		Tier 2 Classification				
RAO Class:		PN				
RAO Class Desc:		Permanent Solution with No Conditions				

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	PSNC	Phase:	PHASE II
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	18-Oct-2016	OHM:	Hazardous Material
OFC Notification:	22-Oct-2014		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc: Comprehensive Site Assessment
 RAO Class Desc: Permanent Solution with No Conditions
 Other Rela:

157	1 of 4	W	0.75 / 3,937.61	290.53 / 97	CUMBERLAND FARMS 200 WASHINGTON ST HUDSON MA	RELEASE
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RTN:	2-0013611	Phase:	
Compliance Date:	4/20/2001	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	12/14/2000	Site Name (BWSC):	CUMBERLAND FARMS
Source:	PIPE	Address (BWSC):	200 WASHINGTON ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	CUMBERLAND FARMS	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	200 WASHINGTON ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013611		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013611		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 20
Units: GAL

Action Information (BWSC)

Status:	REPORT	F Name:	
Date:	14-Dec-2000	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	CSRCVD	F Name:	
Date:	20-Apr-2001	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Completion Statement Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	PLANWR	F Name:	
Date:	12-Feb-2001	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Written Plan Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	RAORCD	F Name:	
Date:	20-Apr-2001	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status: REPORT **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 12-Feb-2001 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 14-Dec-2000 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 20-Apr-2001 **OHM:** Oil
OFC Notification: 14-Dec-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

157	2 of 4	W	0.75 / 3,937.61	290.53 / 97	CUMBERLAND FARMS 200 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0016604 **Phase:**
Compliance Date: 4/26/2007 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 3/2/2007 **Site Name (BWSC):** CUMBERLAND FARMS
Source: PIPE, VEHICLE **Address (BWSC):** 200 WASHINGTON ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): CUMBERLAND FARMS **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 200 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016604>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016604>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 35
Units: GAL

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 15-Mar-2007 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 26-Apr-2007 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RECPT			F Name:		
Date:	26-Apr-2007			L Name:		
Action:	RNFE					
Action Description:	Release Notification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD			F Name:		
Date:	11-May-2007			L Name:		
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT			F Name:		
Date:	02-Mar-2007			L Name:		
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORAL			F Name:		
Date:	02-Mar-2007			L Name:		
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	26-Apr-2007	OHM:	Oil
OFC Notification:	02-Mar-2007		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

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W

0.75 /
3,937.61

290.53 /
97

CUMBERLAND FARMS
200 WASHINGTON ST
HUDSON MA

RELEASE

RTN:	2-0011145	Phase:	
Compliance Date:	9/12/1996	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	3/5/1996	Site Name (BWSC):	CUMBERLAND FARMS
Source:	UST	Address (BWSC):	200 WASHINGTON ST
Reporting Category:	72 HR	Town (BWSC):	HUDSON
Site (EEA Data):	CUMBERLAND FARMS	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	200 WASHINGTON ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!wastesite/2-0011145		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011145		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 100
Units: PPMV

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 05-Mar-1996 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 20-Sep-1996 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 02-May-1996 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 06-Mar-1996 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 05-Mar-1996 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 05-Mar-1996 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 12-Sep-1996 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 02-May-1996 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 12-Sep-1996 **OHM:** Oil
OFC Notification: 05-Mar-1996
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

157	4 of 4	W	0.75 / 3,937.61	290.53 / 97	CUMBERLAND FARMS INC 200 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0015666 **Phase:**
Compliance Date: 5/20/2005 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 3/30/2005 **Site Name (BWSC):** CUMBERLAND FARMS INC
Source: UST **Address (BWSC):** 200 WASHINGTON ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): CUMBERLAND FARMS INC **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 200 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015666>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015666>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 10
Units: GAL

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 20-May-2005 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NOEC **F Name:**
Date: 16-Feb-2006 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Date:	30-Mar-2005				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ACOP				F Name:	
Date:	12-Jul-2006				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	RFI				F Name:	
Date:	21-Apr-2005				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	APORAL				F Name:	
Date:	30-Mar-2005				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	INTLET				F Name:	
Date:	21-Apr-2005				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	ISSUED				F Name:	
Date:	21-Apr-2005				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	TSAUD				F Name:	
Date:	10-Jun-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Status:	REPORT				F Name:	
Date:	20-May-2005				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	A2					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Current Date:	20-May-2005				OHM: Oil	
OFC Notification:	30-Mar-2005					
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Other Rela:						

[158](#) 1 of 1 W 0.74 / 3,884.50 281.48 / 88 PURDY PROPERTY 191A WASHINGTON ST HUDSON MA RELEASE

RTN: 2-0016830 **Phase:**
Compliance Date: 11/19/2007 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil and Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 9/19/2007 **Site Name (BWSC):** PURDY PROPERTY
Source: **Address (BWSC):** 191A WASHINGTON ST
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): PURDY PROPERTY **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 191A WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016830>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016830>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS
Amount: 8740
Units: MG/KG

Chemical: CADMIUM
Amount: 2.4
Units: MG/KG

Chemical: LEAD
Amount: 560
Units: MG/KG

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 2450
Units: MG/KG

Action Information (BWSC)

Status: FEEREC **F Name:**
Date: 20-Sep-2007 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 19-Nov-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 19-Sep-2007 **L Name:**
Action: REL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Release Disposition				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	12-Dec-2007				L Name:	
Action:	RAO					
Action Description:		Response Action Outcome -RAO				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	SNAUDI				F Name:	
Date:	09-Nov-2007				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Level II - Audit Inspection				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	ISSUED				F Name:	
Date:	05-Oct-2007				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	NAFNVD				F Name:	
Date:	09-Nov-2007				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	PLANWR				F Name:	
Date:	19-Sep-2007				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Written Plan Received				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	28-Sep-2007				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	REPORT				F Name:	
Date:	19-Sep-2007				L Name:	
Action:	RNF					
Action Description:		Release Notification Form Received				
Status Description:		Reportable Release under MGL 21E				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	19-Nov-2007	OHM:	Oil and Hazardous Material
OFC Notification:	19-Sep-2007		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

159	1 of 1	E	0.91 / 4,820.51	123.67 / -70	MUNICIPAL ROADWAY NEARBY 44 RIVER ROAD WAYLAND MA	RELEASE
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RTN:	3-0031870	Phase:	
Compliance Date:	11/21/2013	RAO Class:	A1
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	MUNICIPAL, ROADWAY
Notification Date:	11/19/2013	Site Name (BWSC):	MUNICIPAL ROADWAY
Source:	LINE	Address (BWSC):	NEARBY 44 RIVER ROAD
Reporting Category:	TWO HR	Town (BWSC):	WAYLAND
Site (EEA Data):	MUNICIPAL ROADWAY	Zip Code (BWSC):	
Rel Add(EEA Data):	NEARBY 44 RIVER ROAD	OFC Town (BWSC):	WAYLAND
Town (EEA Data):	WAYLAND		
Phase Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0031870		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0031870		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: HYDRAULIC FLUID
Amount: 20
Units: GAL

Chemical: HYDRAULIC FLUID
Amount: 30
Units: GAL

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	21-Nov-2013	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	19-Nov-2013	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RECPT	F Name:	
Date:	21-Nov-2013	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	APORAL	F Name:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 19-Nov-2013 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 21-Nov-2013 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 21-Nov-2013 **OHM:** Oil
OFC Notification: 19-Nov-2013
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

160	1 of 1	W	0.73 / 3,844.12	270.88 / 77	COMMERCIAL PROPERTY 173 WASHINGTON STREET HUDSON MA	RELEASE
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RTN: 2-0018043 **Phase:** PHASE IV
Compliance Date: 3/25/2015 **RAO Class:** PA
Compliance Status: PSC **Chemical Type:** Oil
Compl Status Desc: Permanent Solution with Conditions **Location Type:** COMMERCIAL
Notification Date: 11/9/2010 **Site Name (BWSC):** COMMERCIAL PROPERTY
Source: AST, TANK, UNKNOWN, UST, USTOTHER **Address (BWSC):** 173 WASHINGTON STREET
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): COMMERCIAL PROPERTY **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 173 WASHINGTON STREET **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc: Permanent Solution with Conditions and AUL
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018043>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018043>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 3530
Units: MG/KG

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS
Amount: 2120
Units: MG/KG

Chemical: AROCLOR 1262
Amount: 2.47
Units: MG/KG

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS
Amount: 400

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Units: MG/KG

Action Information (BWSC)

Status: NAFNVD **F Name:**
Date: 22-May-2012 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: CSRCVD **F Name:**
Date: 14-Nov-2011 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: CSRCVD **F Name:**
Date: 01-May-2014 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: NAFVIO **F Name:**
Date: 11-Sep-2017 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: LEGNOT **F Name:**
Date: 09-Apr-2015 **L Name:**
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Legal Notice Published
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: PLANWR **F Name:**
Date: 07-Dec-2011 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: STRCVD **F Name:**
Date: 06-Apr-2012 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: STRCVD **F Name:**
Date: 02-Oct-2012 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	TSAUD				F Name:	
Date:	17-Apr-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	TSAUD				F Name:	
Date:	31-Oct-2012				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	FLDD1A				F Name:	
Date:	09-Jan-2012				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Initial Compliance Field Response - Announced					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	RECPY				F Name:	
Date:	29-Aug-2016				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	SHPFAC				F Name:	
Date:	06-Oct-2016				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Remediation was Shipped to a Facility					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	ISSUED				F Name:	
Date:	07-Dec-2010				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	CSRCVD				F Name:	
Date:	20-Nov-2013				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	STRCVD				F Name:	
Date:	15-Oct-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Status or Interim Report Received					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	EVALCH				F Name:	
Date:	29-Aug-2016				L Name:	
Action:	AUL					
Action Description:	Activity and Use Limitation					
Status Description:	Eval Changes in Land Uses/Site Conditions after RAO or POTS					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	RECPT				F Name:	
Date:	02-Jul-2012				L Name:	
Action:	BOL					
Action Description:		Bill of Lading				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	SHPFAC				F Name:	
Date:	23-Aug-2012				L Name:	
Action:	BOL					
Action Description:		Bill of Lading				
Status Description:		Remediation was Shipped to a Facility				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	TSAUD				F Name:	
Date:	30-Nov-2011				L Name:	
Action:	PHASEI					
Action Description:		Phase 1				
Status Description:		Level I - Technical Screen Audit				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	RMRINT				F Name:	
Date:	15-Oct-2013				L Name:	
Action:	RAM					
Action Description:		Release Abatement Measure				
Status Description:		RMR Interim Report Received				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	NAFNVD				F Name:	
Date:	15-Jun-2017				L Name:	
Action:	AUDCOM					
Action Description:						
Status Description:						
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	RECPT				F Name:	
Date:	25-Mar-2015				L Name:	
Action:	AUL					
Action Description:		Activity and Use Limitation				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	SNAUDI				F Name:	
Date:	15-Jun-2017				L Name:	
Action:	AUL					
Action Description:		Activity and Use Limitation				
Status Description:		Level II - Audit Inspection				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	RECPT				F Name:	
Date:	17-Jan-2012				L Name:	
Action:	BOL					
Action Description:		Bill of Lading				
Status Description:		Transmittal, Notice, or Notification Received				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	TSAUD				F Name:	
Date:	20-Apr-2012				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	REPORT			F Name:		
Date:	09-Nov-2010			L Name:		
Action:	REL					
Action Description:			Release Disposition			
Status Description:			Reportable Release under MGL 21E			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	FLDRUN			F Name:		
Date:	31-May-2017			L Name:		
Action:	RLFA					
Action Description:			Site Visit or Office Follow-up			
Status Description:			Compliance Field Response - Unannounced			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	TSAUD			F Name:		
Date:	23-Oct-2012			L Name:		
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	TSAUD			F Name:		
Date:	14-Dec-2016			L Name:		
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	TSAUD			F Name:		
Date:	31-Dec-2013			L Name:		
Action:	RAM					
Action Description:			Release Abatement Measure			
Status Description:			Level I - Technical Screen Audit			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	PSARCD			F Name:		
Date:	25-Mar-2015			L Name:		
Action:	RAO					
Action Description:			Response Action Outcome -RAO			
Status Description:			Permanent Solution with Conditions and AUL			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	TSAUD			F Name:		
Date:	17-Aug-2015			L Name:		
Action:	RAO					
Action Description:			Response Action Outcome -RAO			
Status Description:			Level I - Technical Screen Audit			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			
Status:	REPORT			F Name:		
Date:	28-Dec-2010			L Name:		
Action:	REL					
Action Description:			Release Disposition			
Status Description:			Reportable Release under MGL 21E			
RAO Class:			PA			
RAO Class Desc:			Permanent Solution with Conditions and AUL			

Status: RECPT **F Name:**
Date: 22-Nov-2010 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: LEGNOT **F Name:**
Date: 08-Dec-2011 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Legal Notice Published
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: ALSENT **F Name:**
Date: 01-Sep-2011 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: CSRCVD **F Name:**
Date: 20-Nov-2013 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: CSRCVD **F Name:**
Date: 02-Dec-2016 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: RMRFIN **F Name:**
Date: 01-May-2014 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: RMR Final Report Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: RMRINI **F Name:**
Date: 02-Oct-2012 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: RMR Initial Report Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: STRCVD **F Name:**
Date: 11-Apr-2013 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: STRCVD **F Name:**
Date: 01-May-2014 **L Name:**
Action: RAM
Action Description: Release Abatement Measure

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status Description:		Status or Interim Report Received				
RAO Class:		PA				
RAO Class Desc:		Permanent Solution with Conditions and AUL				
Status:	TSAUD				F Name:	
Date:	05-Jan-2012				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	FOLOFF				F Name:	
Date:	23-Jun-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	SHPFAC				F Name:	
Date:	17-Feb-2012				L Name:	
Action:	BOL					
Action Description:	Bill of Lading					
Status Description:	Remediation was Shipped to a Facility					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	PLANWR				F Name:	
Date:	29-Aug-2016				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Written Plan Received					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	RMRINT				F Name:	
Date:	11-Apr-2013				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	RMR Interim Report Received					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	SNAUDI				F Name:	
Date:	22-May-2012				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level II - Audit Inspection					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	TSAUD				F Name:	
Date:	12-May-2014				L Name:	
Action:	RAM					
Action Description:	Release Abatement Measure					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	FLDD1U				F Name:	
Date:	08-Jun-2016				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Initial Compliance Field Response - Unannounced					
RAO Class:	PA					
RAO Class Desc:	Permanent Solution with Conditions and AUL					
Status:	RECPT				F Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 14-Nov-2011 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Status: TIERII **F Name:**
Date: 14-Nov-2011 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: PA
RAO Class Desc: Permanent Solution with Conditions and AUL

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: PSC **Phase:** PHASE IV
Current St Desc: Permanent Solution with Conditions **RAO Class:** PA
Current Date: 25-Mar-2015 **OHM:** Oil
OFC Notification: 09-Nov-2010
Phase Desc: Implementation of the Selected Remedial Action Alternative and Remedy Implementation Plan
RAO Class Desc: Permanent Solution with Conditions and AUL
Other Rela:

161	1 of 1	W	0.64 / 3,390.22	230.72 / 37	HUDSON SENIOR CENTER 29 CHURCH ST HUDSON MA	RELEASE
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RTN: 2-0017550 **Phase:**
Compliance Date: 7/10/2009 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 6/17/2009 **Site Name (BWSC):** HUDSON SENIOR CENTER
Source: **Address (BWSC):** 29 CHURCH ST
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): HUDSON SENIOR CENTER **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 29 CHURCH ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017550>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017550>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS
Amount: 2220
Units: MG/KG

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 22-Jul-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 19-Aug-2009 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 10-Jul-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 17-Jun-2009 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 17-Jun-2009 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** 120 DY
Current St Desc: Response Action Outcome **Phase:**
Current Date: 10-Jul-2009 **RAO Class:** A2
OFC Notification: 17-Jun-2009 **OHM:** Oil
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

162	1 of 1	W	0.72 / 3,816.77	271.47 / 78	WASTE MANAGEMENT INC 154 WASHINGTON AVE HUDSON MA	RELEASE
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RTN: 2-0013689 **Phase:**
Compliance Date: 4/17/2001 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 2/14/2001 **Site Name (BWSC):** WASTE MANAGEMENT INC
Source: VEHICLE **Address (BWSC):** 154 WASHINGTON AVE
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): WASTE MANAGEMENT INC **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 154 WASHINGTON AVE **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013689>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013689>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC FLUID

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Amount: 40
Units: GAL

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 17-Apr-2001 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 21-Mar-2001 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 14-Feb-2001 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 17-Apr-2001 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 14-Feb-2001 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 17-Apr-2001 **OHM:** Oil
OFC Notification: 14-Feb-2001
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

163	1 of 1	W	0.73 / 3,845.20	274.10 / 80	CELLUCI HUDSON CORP 153 WASHINGTON ST HUDSON MA	RELEASE
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RTN:	2-0010317				Phase: PHASE II	
Compliance Date:	3/20/1998				RAO Class: A2	
Compliance Status:	RAO				Chemical Type: Oil	
Compl Status Desc:	Response Action Outcome				Location Type:	
Notification Date:	5/23/1994				Site Name (BWSC): CELLUCI HUDSON CORP	
Source:					Address (BWSC): 153 WASHINGTON ST	
Reporting Category:	120 DY				Town (BWSC): HUDSON	
Site (EEA Data):	CELLUCI HUDSON CORP				Zip Code (BWSC): 01749	
Rel Add(EEA Data):	153 WASHINGTON ST				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:	Comprehensive Site Assessment					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010317					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010317					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Chemical: TPH
Amount: 1053
Units: MG/KG

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 21-Jun-1994 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 20-Mar-1998 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 20-Mar-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TIERII **F Name:**
Date: 30-May-1995 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 01-Apr-1996 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEECDR **F Name:**
Date: 24-Mar-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Not Required - Fee Credited
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 30-May-1995 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 23-Mar-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 23-May-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 23-May-1994 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 30-May-1995 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** 120 DY
Current St Desc: Response Action Outcome **Phase:** PHASE II
Current Date: 20-Mar-1998 **RAO Class:** A2
OFC Notification: 23-May-1994 **OHM:** Oil
Phase Desc: Comprehensive Site Assessment
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

164	1 of 2	E	0.61 / 3,205.91	169.60 / -24	WATERS MANUFACTURING 522 BOSTON POST RD LONGFELLOW WAYLAND MA	RELEASE
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RTN: 3-0000059 **Phase:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Compliance Date:	6/29/1995				RAO Class: A2	
Compliance Status:	RAO				Chemical Type: Oil	
Compl Status Desc:	Response Action Outcome				Location Type: MANUFACT	
Notification Date:	5/28/1986				Site Name (BWSC): WATERS MANUFACTURING	
Source:	AST				Address (BWSC): 522 BOSTON POST RD LONGFELLOW	
Reporting Category:	NONE				Town (BWSC): WAYLAND	
Site (EEA Data):	WATERS MANUFACTURING				Zip Code (BWSC): 01778	
Rel Add(EEA Data):	522 BOSTON POST RD LONGFELLOW				OFC Town (BWSC): WAYLAND	
Town (EEA Data):	WAYLAND					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeonline.eea.state.ma.us/Portal#!/wastesite/3-0000059					
Docs URL:	https://eeonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0000059					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: VOCS
Amount:
Units:

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 29-Jun-1995 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 19-Sep-2017 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 28-May-1986 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRUN **F Name:**
Date: 28-Jun-2017 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 15-Apr-1986 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TCTRNS **F Name:**
Date: 28-May-1986 **L Name:**
Action: REL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Description:		Release Disposition				
Status Description:		Valid Transition Site (Retired)				
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				

Release (BWSC) Detail

Prim ID:		Category:	NONE
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	29-Jun-1995	OHM:	Oil
OFC Notification:	28-May-1986		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

164	2 of 2	E	0.61 / 3,205.91	169.60 / -24	CHILDCARE CENTER 522 BOSTON POST ROAD WAYLAND MA 01778-0000	DELISTED REL
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Delisted Waste Site Cleanup Notification Sites

RTN:	3-0034568	Location:	COMMERCIAL, SCHOOL
OFC Notification:	10/25/2017	Curr Status Desc:	Unclassified
Prim ID:		Source:	UNKNOWN
Category:	72 HR	Phase:	
Current Date:	10/25/2017	Record Date:	29-JAN-2018
OHM:		RAO Class:	
Current Status:	UNCLSS	Original Source:	REL
Phase Desc:			
RAO Class Desc:			
Info URL:			
Docs URL:			

165	1 of 1	WNW	0.96 / 5,085.52	218.85 / 25	RJ CURLEY & SONS PROPERTY 152 MANNING ST LOT 234 HUDSON MA	RELEASE
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RTN:	2-0018565	Phase:	
Compliance Date:	6/28/2012	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	COMMERCIAL
Notification Date:	5/3/2012	Site Name (BWSC):	RJ CURLEY & SONS PROPERTY
Source:	VEHICLE	Address (BWSC):	152 MANNING ST LOT 234
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	RJ CURLEY & SONS PROPERTY	Zip Code (BWSC):	
Rel Add(EEA Data):	152 MANNING ST LOT 234	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0018565		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0018565		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical:	DIESEL FUEL
Amount:	30
Units:	GAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 23-May-2012 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 28-Jun-2012 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 03-May-2012 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: SHPFAC **F Name:**
Date: 19-Jun-2012 **L Name:**
Action: BOL
Action Description: Bill of Lading
Status Description: Remediation was Shipped to a Facility
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 03-May-2012 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDDO **F Name:**
Date: 03-May-2012 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 11-May-2012 **L Name:**
Action: BOL
Action Description: Bill of Lading
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 01-Aug-2012 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 28-Jun-2012 **L Name:**
Action: RNFE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 28-Jun-2012
OFC Notification: 03-May-2012
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

166	1 of 1	W	0.72 / 3,788.60	220.76 / 27	MAIN ST ROTARY 32 MAIN ST HUDSON MA	RELEASE
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RTN: 2-0020579
Compliance Date: 8/20/2018
Compliance Status: PSNC
Compl Status Desc: Permanent Solution with No Conditions
Notification Date: 7/3/2018
Source: VEHICLE
Reporting Category: TWO HR
Site (EEA Data): MAIN ST ROTARY
Rel Add(EEA Data): 32 MAIN ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020579>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020579>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: PN
Chemical Type:
Location Type: ROADWAY
Site Name (BWSC): MAIN ST ROTARY
Address (BWSC): 32 MAIN ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Action Information (BWSC)

Status: FLDISS
Date: 03-Jul-2018
Action: NOR
Action Description: Notice of Responsibility
Status Description: Field NOR Issued
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: APORAL
Date: 03-Jul-2018
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: ISSUED
Date: 16-Jul-2018
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

F Name:
L Name:

Status: TSAUD
Date: 12-Dec-2018
Action: RAO

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: FLDDO **F Name:**
Date: 03-Jul-2018 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Field Response - Direct Oversight
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: RECPT **F Name:**
Date: 20-Aug-2018 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: PSNRCD **F Name:**
Date: 20-Aug-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with No Conditions
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Status: REPORT **F Name:**
Date: 03-Jul-2018 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PN
RAO Class Desc: Permanent Solution with No Conditions

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: PSNC **Phase:**
Current St Desc: Permanent Solution with No Conditions **RAO Class:** PN
Current Date: 20-Aug-2018 **OHM:**
OFC Notification: 03-Jul-2018
Phase Desc:
RAO Class Desc: Permanent Solution with No Conditions
Other Rela:

167	1 of 1	W	0.72 / 3,817.14	210.58 / 17	NO LOCATION AID 28 WASHINGTON STREET HUDSON MA	RELEASE
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RTN: 2-0020026 **Phase:** PHASE III
Compliance Date: 10/16/2019 **RAO Class:** PC
Compliance Status: PSC **Chemical Type:**
Compl Status Desc: Permanent Solution with Conditions **Location Type:** PRIVPROP
Notification Date: 10/26/2016 **Site Name (BWSC):** NO LOCATION AID
Source: UNKNOWN **Address (BWSC):** 28 WASHINGTON STREET
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 28 WASHINGTON STREET **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: Permanent Solution with Conditions and no AUL
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020026>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020026>

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Action Information (BWSC)

Status: EPETOP **F Name:**
Date: 28-Aug-2017 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Eligible Person Eligible Tenant Other Person Certification
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: TIERII **F Name:**
Date: 28-Aug-2017 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 2 Classification
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: TSAUD **F Name:**
Date: 10-Dec-2019 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: SOW **F Name:**
Date: 28-Aug-2017 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Scope of Work Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: ISSUED **F Name:**
Date: 23-Nov-2016 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: CSRCVD **F Name:**
Date: 28-Aug-2017 **L Name:**
Action: PHASEI
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: RECP T **F Name:**
Date: 28-Aug-2017 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: PSCRCD **F Name:**
Date: 16-Oct-2019 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with Conditions and no AUL
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 26-Oct-2016 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: CSRCVD **F Name:**
Date: 16-Oct-2019 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Completion Statement Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: RECPT **F Name:**
Date: 26-Oct-2016 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: PSC **Phase:** PHASE III
Current St Desc: Permanent Solution with Conditions **RAO Class:** PC
Current Date: 16-Oct-2019 **OHM:**
OFC Notification: 26-Oct-2016
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: Permanent Solution with Conditions and no AUL
Other Rela:

168	1 of 2	W	0.74 / 3,917.52	209.95 / 16	STAR ENT FACILITY 11 143 1315 27 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0001051 **Phase:**
Compliance Date: 3/19/1996 **RAO Class:**
Compliance Status: RAO **Chemical Type:**
Compl Status Desc: Response Action Outcome **Location Type:** GASSTATION
Notification Date: 7/15/1993 **Site Name (BWSC):** STAR ENT FACILITY 11 143 1315
Source: UNKNOWN **Address (BWSC):** 27 WASHINGTON ST
Reporting Category: NONE **Town (BWSC):** HUDSON
Site (EEA Data): STAR ENT FACILITY 11 143 1315 **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 27 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0001051>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0001051>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: RAOEQ **F Name:**
Date: 19-Mar-1996 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: NAFNVD **F Name:**
Date: 14-Mar-1996 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: TCTRNS **F Name:**
Date: 15-Jul-1993 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** NONE
Current St Desc: Response Action Outcome **Phase:**
Current Date: 19-Mar-1996 **RAO Class:**
OFC Notification: 15-Jul-1993 **OHM:**
Phase Desc:
RAO Class Desc:
Other Rela:

168	2 of 2	W	0.74 / 3,917.52	209.95 / 16	TEXACO STA FMR 27 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0011920 **Phase:**
Compliance Date: 12/8/1997 **RAO Class:** B1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 10/7/1997 **Site Name (BWSC):** TEXACO STA FMR
Source: UST **Address (BWSC):** 27 WASHINGTON ST
Reporting Category: 72 HR **Town (BWSC):** HUDSON
Site (EEA Data): TEXACO STA FMR **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 27 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011920>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011920>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount: 0.05
Units: GAL/HR

Action Information (BWSC)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	APORAL				F Name:	
Date:	07-Oct-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Oral Approval of Plan or Action					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	RAORCD				F Name:	
Date:	08-Dec-1997				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	08-Dec-1997				L Name:	
Action:	RNF					
Action Description:	Release Notification Form Received					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	CSRCVD				F Name:	
Date:	08-Dec-1997				L Name:	
Action:	IRA					
Action Description:	Immediate Response Action					
Status Description:	Completion Statement Received					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					
Status:	REPORT				F Name:	
Date:	07-Oct-1997				L Name:	
Action:	REL					
Action Description:	Release Disposition					
Status Description:	Reportable Release under MGL 21E					
RAO Class:	B1					
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.					

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** 72 HR
Current St Desc: Response Action Outcome **Phase:**
Current Date: 08-Dec-1997 **RAO Class:** B1
OFC Notification: 07-Oct-1997 **OHM:** Oil
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

[169](#) 1 of 1 **WNW** **0.86 / 4,540.98** **229.74 / 36** **DFL LAKE STREET LLC** **RELEASE**
29 & 39 LAKE STREET
HUDSON MA

RTN: 2-0020652 **Phase:**
Compliance Date: 10/9/2018 **RAO Class:** PC
Compliance Status: PSC **Chemical Type:**
Compl Status Desc: Permanent Solution with Conditions **Location Type:** COMMERCIAL, PRIVPROP
Notification Date: 9/4/2018 **Site Name (BWSC):** DFL LAKE STREET LLC
Source: UNKNOWN **Address (BWSC):** 29 & 39 LAKE STREET
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): DFL LAKE STREET LLC **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 29 & 39 LAKE STREET **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: Permanent Solution with Conditions and no AUL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Info URL: https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020652
Docs URL: https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020652
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Action Information (BWSC)

Status: TSAUD **F Name:**
Date: 08-Nov-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: REPORT **F Name:**
Date: 04-Sep-2018 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: RECPT **F Name:**
Date: 04-Sep-2018 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: PSCRCD **F Name:**
Date: 09-Oct-2018 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Permanent Solution with Conditions and no AUL
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Status: ISSUED **F Name:**
Date: 21-Sep-2018 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: PC
RAO Class Desc: Permanent Solution with Conditions and no AUL

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: PSC **Phase:**
Current St Desc: Permanent Solution with Conditions **RAO Class:** PC
Current Date: 09-Oct-2018 **OHM:**
OFC Notification: 04-Sep-2018
Phase Desc:
RAO Class Desc: Permanent Solution with Conditions and no AUL
Other Rela:

170	1 of 1	W	0.75 / 3,974.20	209.18 / 15	CREATIVE HOME FURNISHINGS 32 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0000069 **Phase:** PHASE III
Compliance Date: 1/31/2005 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Notification Date:	1/15/1987				Site Name (BWSC):	CREATIVE HOME FURNISHINGS
Source:					Address (BWSC):	32 WASHINGTON ST
Reporting Category:	NONE				Town (BWSC):	HUDSON
Site (EEA Data):	CREATIVE HOME FURNISHINGS				Zip Code (BWSC):	01749
Rel Add(EEA Data):	32 WASHINGTON ST				OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON					
Phase Desc:	Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan					
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000069					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000069					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: VOCS
Amount:
Units:

Action Information (BWSC)

Status:	TIERII	F Name:	
Date:	25-Jun-1998	L Name:	
Action:	TCLASS		
Action Description:	Tier Classification		
Status Description:	Tier 2 Classification		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	INTLET	F Name:	
Date:	04-Feb-2004	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	INTLET	F Name:	
Date:	28-Apr-2004	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	RFI	F Name:	
Date:	04-Feb-2004	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	ISSUED	F Name:	
Date:	17-Nov-1986	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	TCTRNS	F Name:	
Date:	15-Jan-1987	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Valid Transition Site (Retired)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RECPT				F Name:	
Date:	25-Jun-1998				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Transmittal, Notice, or Notification Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	LSPFA				F Name:	
Date:	09-Jul-1998				L Name:	
Action:	TREGS					
Action Description:						
Status Description:						
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	SOW				F Name:	
Date:	30-Jun-2004				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Scope of Work Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	TSAUD				F Name:	
Date:	04-Feb-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	T2EXT				F Name:	
Date:	23-Apr-2004				L Name:	
Action:	TCLASS					
Action Description:	Tier Classification					
Status Description:	Tier 2 Extension (retired)					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	25-Jun-1998				L Name:	
Action:	PHASEI					
Action Description:	Phase 1					
Status Description:	Completion Statement Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	RAORCD				F Name:	
Date:	31-Jan-2005				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	RAO Statement Received (retired)					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	CSRCVD				F Name:	
Date:	31-Jan-2005				L Name:	
Action:	PHASII					
Action Description:	Phase 2					
Status Description:	Completion Statement Received					
RAO Class:		A2				
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Status:	INTLET				F Name:	
Date:	08-Jan-1998				L Name:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NON **F Name:**
Date: 18-Nov-2003 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 28-Aug-1989 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:** PHASE III
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 31-Jan-2005 **OHM:** Oil
OFC Notification: 15-Jan-1987
Phase Desc: Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives and the Remedial Action Plan
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

171	1 of 1	W	0.76 / 3,991.53	209.89 / 16	BAKER COMMODITIES 32 36 WASHINGTON ST HUDSON MA	RELEASE
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RTN: 2-0012183 **Phase:**
Compliance Date: 5/11/1998 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** ROADWAY
Notification Date: 4/10/1998 **Site Name (BWSC):** BAKER COMMODITIES
Source: VEHICLE **Address (BWSC):** 32 36 WASHINGTON ST
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): BAKER COMMODITIES **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): 32 36 WASHINGTON ST **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012183>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012183>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: HYDRAULIC FLUID
Amount: 15
Units: GAL

Action Information (BWSC)

Status: REPORT **F Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 11-May-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 10-Apr-1998 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 22-Apr-1998 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 11-May-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 10-Apr-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 10-Apr-1998 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 11-May-1998 **OHM:** Oil
OFC Notification: 10-Apr-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

172	1 of 1	W	0.94 / 4,938.97	248.16 / 54	DIESEL FUEL RELEASE LINCOLN AND APSLEY ST	RELEASE
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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HUDSON MA

RTN:	2-0020422	Phase:	
Compliance Date:	12/5/2018	RAO Class:	PN
Compliance Status:	PSNC	Chemical Type:	
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:	ROADWAY
Notification Date:	12/13/2017	Site Name (BWSC):	DIESEL FUEL RELEASE
Source:	FUELTANK, VEHICLE	Address (BWSC):	LINCOLN AND APSLEY ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	DIESEL FUEL RELEASE	Zip Code (BWSC):	
Rel Add(EEA Data):	LINCOLN AND APSLEY ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020422		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020422		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	ACOP	F Name:	
Date:	10-Oct-2019	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		
Status:	PSNRCD	F Name:	
Date:	05-Dec-2018	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Permanent Solution with No Conditions		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		
Status:	NON	F Name:	
Date:	20-Feb-2018	L Name:	
Action:	C&E		
Action Description:			
Status Description:			
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		
Status:	REPORT	F Name:	
Date:	13-Dec-2017	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		
Status:	RECPT	F Name:	
Date:	05-Dec-2018	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		
Status:	CSRCVD	F Name:	
Date:	05-Dec-2018	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Completion Statement Received		
RAO Class:	PN		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAO Class Desc:		Permanent Solution with No Conditions				
Status:	FOLOFF				F Name:	
Date:	31-Jan-2018				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Follow-up Office Response					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	FEEREC				F Name:	
Date:	10-Dec-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Fee Received					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	FLDDO				F Name:	
Date:	13-Dec-2017				L Name:	
Action:	RLFA					
Action Description:	Site Visit or Office Follow-up					
Status Description:	Field Response - Direct Oversight					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	NOEC				F Name:	
Date:	31-Jul-2018				L Name:	
Action:	C&E					
Action Description:						
Status Description:						
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	ISSUED				F Name:	
Date:	18-Jan-2018				L Name:	
Action:	NOR					
Action Description:	Notice of Responsibility					
Status Description:	Correspondence Issued					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					
Status:	TSAUD				F Name:	
Date:	07-Dec-2018				L Name:	
Action:	RAO					
Action Description:	Response Action Outcome -RAO					
Status Description:	Level I - Technical Screen Audit					
RAO Class:	PN					
RAO Class Desc:	Permanent Solution with No Conditions					

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	PSNC	Phase:	
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	05-Dec-2018	OHM:	
OFC Notification:	13-Dec-2017		
Phase Desc:	Permanent Solution with No Conditions		
RAO Class Desc:	Permanent Solution with No Conditions		
Other Rela:			

173	1 of 1	W	0.89 / 4,709.85	234.63 / 41	INTERSECTION RTE 62 29 RIVER ST HUDSON MA	RELEASE
RTN:	2-0014213				Phase:	
Compliance Date:	5/6/2002				RAO Class:	A2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Compliance Status:	RAO				Chemical Type: Oil	
Compl Status Desc:	Response Action Outcome				Location Type: RESIDENTIAL	
Notification Date:	3/4/2002				Site Name (BWSC): INTERSECTION RTE 62	
Source:	AST, PIPE				Address (BWSC): 29 RIVER ST	
Reporting Category:	TWO HR				Town (BWSC): HUDSON	
Site (EEA Data):	INTERSECTION RTE 62				Zip Code (BWSC): 01749-0000	
Rel Add(EEA Data):	29 RIVER ST				OFC Town (BWSC): HUDSON	
Town (EEA Data):	HUDSON					
Phase Desc:						
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.					
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0014213					
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0014213					
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)					

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 10
Units: GAL

Action Information (BWSC)

Status: TSAUD
Date: 10-May-2002
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FOLOFF
Date: 15-Mar-2002
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RAORCD
Date: 06-May-2002
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: APORMD
Date: 15-Mar-2002
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: CSRCVD
Date: 06-May-2002
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FOLOFF
Date: 08-Mar-2002
Action: RLFA
Action Description: Site Visit or Office Follow-up

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 06-May-2002 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 04-Mar-2002 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 02-Apr-2002 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 04-Mar-2002 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 06-May-2002 **OHM:** Oil
OFC Notification: 04-Mar-2002
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

174	1 of 1	E	0.91 / 4,786.26	123.60 / -70	PLANNED RIVERS EDGE DEVELOPMENT 484-490 BOSTON POST ROAD WAYLAND MA	RELEASE
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RTN: 3-0036013 **Phase:**
Compliance Date: 12/2/2019 **RAO Class:**
Compliance Status: UNCLASSIFIED **Chemical Type:** Hazardous Material
Compl Status Desc: Unclassified **Location Type:**
Notification Date: 12/2/2019 **Site Name (BWSC):** PLANNED RIVERS EDGE DEVELOPMENT
Source: UNKNOWN **Address (BWSC):** 484-490 BOSTON POST ROAD
Reporting Category: 120 DY **Town (BWSC):** WAYLAND
Site (EEA Data): PLANNED RIVERS EDGE DEVELOPMENT **Zip Code (BWSC):** 01778-1831
Rel Add(EEA Data): 484-490 BOSTON POST ROAD **OFC Town (BWSC):** WAYLAND
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0036013>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0036013>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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(BWSC)

Chemical Information (BWSC)

Chemical:	ACENAPHTHENE
Amount:	4.1
Units:	MG/KG
Chemical:	DIBENZO[A,H]ANTHRACENE
Amount:	1.5
Units:	MG/KG
Chemical:	BENZO[A]PYRENE
Amount:	12
Units:	MG/KG
Chemical:	BENZ[A]ANTHRACENE
Amount:	13
Units:	MG/KG
Chemical:	PHENANTHRENE
Amount:	19
Units:	MG/KG
Chemical:	AMMONIA
Amount:	2000
Units:	UG/L
Chemical:	COPPER
Amount:	7100
Units:	MG/KG
Chemical:	BENZO[B]FLUORANTHENE
Amount:	13
Units:	MG/KG
Chemical:	LEAD
Amount:	24000
Units:	MG/KG
Chemical:	ANTIMONY
Amount:	290
Units:	MG/KG
Chemical:	ARSENIC
Amount:	26
Units:	UG/L
Chemical:	NICKEL
Amount:	110
Units:	UG/L

Action Information (BWSC)

Status:	REPORT	F Name:	
Date:	02-Dec-2019	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:			
RAO Class Desc:			
Status:	ISSUED	F Name:	
Date:	26-Dec-2019	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAO Class:
RAO Class Desc:

Status: REPORT F Name:
Date: 02-Dec-2019 L Name:
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: RECPT F Name:
Date: 02-Dec-2019 L Name:
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: Category: 120 DY
Current Status: UNCLSS Phase:
Current St Desc: Unclassified RAO Class:
Current Date: 02-Dec-2019 OHM: Hazardous Material
OFC Notification: 02-Dec-2019
Phase Desc:
RAO Class Desc:
Other Rela:

175	1 of 3	E	0.91 / 4,806.67	122.51 / -71	NEAR LANDFILL 484 BOSTON POST RD WAYLAND MA	RELEASE
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RTN: 3-0027741 Phase:
Compliance Date: 7/29/2008 RAO Class: A2
Compliance Status: RAO Chemical Type: Oil
Compl Status Desc: Response Action Outcome Location Type: MUNICIPAL
Notification Date: 6/3/2008 Site Name (BWSC): NEAR LANDFILL
Source: VEHICLE Address (BWSC): 484 BOSTON POST RD
Reporting Category: TWO HR Town (BWSC): WAYLAND
Site (EEA Data): NEAR LANDFILL Zip Code (BWSC): 01778-0000
Rel Add(EEA Data): 484 BOSTON POST RD OFC Town (BWSC): WAYLAND
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0027741>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0027741>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL
Amount: 20
Units: GAL

Chemical: DIESEL FUEL
Amount: 15
Units: GAL

Action Information (BWSC)

Status: APORAL F Name:
Date: 03-Jun-2008 L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	28-Jul-2008				L Name:	
Action:	NOR					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	CSRCVD				F Name:	
Date:	29-Jul-2008				L Name:	
Action:	IRA					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RAORCD				F Name:	
Date:	29-Jul-2008				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	03-Jun-2008				L Name:	
Action:	REL					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	REPORT				F Name:	
Date:	29-Jul-2008				L Name:	
Action:	RNF					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	05-Sep-2008				L Name:	
Action:	RAO					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						
Status:	RECPT				F Name:	
Date:	29-Jul-2008				L Name:	
Action:	RNFE					
Action Description:						
Status Description:						
RAO Class:						
RAO Class Desc:						

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	RAO	Phase:	
Current St Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	29-Jul-2008	OHM:	Oil

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
OFC Notification:		03-Jun-2008				
Phase Desc:						
RAO Class Desc:		A permanent solution has been achieved. Contamination has not been reduced to background.				
Other Rela:						

175	2 of 3	E	0.91 / 4,806.67	122.51 / -71	WAYLAND SAND HILL LANDFILL 484 BOSTON POST RD WAYLAND MA	RELEASE
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RTN: 3-0024698
Compliance Date: 5/17/2005
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/18/2005
Source: DRUMS
Reporting Category: TWO HR
Site (EEA Data): WAYLAND SAND HILL LANDFILL
Rel Add(EEA Data): 484 BOSTON POST RD
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0024698>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0024698>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: MOTOR OIL
Amount: 5
Units: GAL

Chemical: WASTE OIL
Amount: 10
Units: GAL

Action Information (BWSC)

Status: ISSUED
Date: 29-Apr-2005
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 18-Mar-2005
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 17-May-2005
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: FOLOFF **F Name:**
Date: 18-Mar-2005 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 18-Mar-2005 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 17-May-2005 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 17-May-2005 **OHM:** Oil
OFC Notification: 18-Mar-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

175	3 of 3	E	0.91 / 4,806.67	122.51 / -71	NO LOCATION AID 484 BOSTON POST ROAD WAYLAND MA	RELEASE
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RTN: 3-0034474 **Phase:** PHASE II
Compliance Date: 8/14/2018 **RAO Class:**
Compliance Status: TIER1 **Chemical Type:** Hazardous Material
Compl Status Desc: Tier 1 Classification **Location Type:** INDUSTRIAL, MUNICIPAL
Notification Date: 8/14/2017 **Site Name (BWSC):** NO LOCATION AID
Source: DEMOLITION, WASTE **Address (BWSC):** 484 BOSTON POST ROAD
Reporting Category: TWO HR **Town (BWSC):** WAYLAND
Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):**
Rel Add(EEA Data): 484 BOSTON POST ROAD **OFC Town (BWSC):** WAYLAND
Town (EEA Data): WAYLAND
Phase Desc: Comprehensive Site Assessment
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0034474>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0034474>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: ASBESTOS
Amount: 1
Units: LBS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Action Information (BWSC)

Status: STRCVD **F Name:**
Date: 11-Dec-2019 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 12-Jun-2018 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 12-Jun-2019 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: RECPT **F Name:**
Date: 12-Oct-2017 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 12-Oct-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 14-Aug-2018 **L Name:**
Action: PHASE1
Action Description: Phase 1
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 12-Dec-2017 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 14-Aug-2017 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: PLANWR **F Name:**
Date: 12-Oct-2017 **L Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Written Plan Received				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	11-Dec-2017				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	LEGNOT				F Name:	
Date:	21-Aug-2018				L Name:	
Action:	TCLASS					
Action Description:		Tier Classification				
Status Description:		Legal Notice Published				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	11-Jun-2018				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	APORAL				F Name:	
Date:	14-Aug-2017				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Oral Approval of Plan or Action				
RAO Class:						
RAO Class Desc:						
Status:	STRCVD				F Name:	
Date:	14-Dec-2018				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Status or Interim Report Received				
RAO Class:						
RAO Class Desc:						
Status:	TSAUD				F Name:	
Date:	17-Dec-2018				L Name:	
Action:	IRA					
Action Description:		Immediate Response Action				
Status Description:		Level I - Technical Screen Audit				
RAO Class:						
RAO Class Desc:						
Status:	ALSENT				F Name:	
Date:	12-Jun-2018				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Anniversary Letter Sent				
RAO Class:						
RAO Class Desc:						
Status:	ISSUED				F Name:	
Date:	21-Sep-2017				L Name:	
Action:	NOR					
Action Description:		Notice of Responsibility				
Status Description:		Correspondence Issued				
RAO Class:						
RAO Class Desc:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status: REPORT **F Name:**
Date: 12-Oct-2017 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: RECPT **F Name:**
Date: 14-Aug-2018 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class:
RAO Class Desc:

Status: TIER1 **F Name:**
Date: 14-Aug-2018 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1 Classification
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: TIER1 **Phase:** PHASE II
Current St Desc: Tier 1 Classification **RAO Class:**
Current Date: 14-Aug-2018 **OHM:** Hazardous Material
OFC Notification: 14-Aug-2017
Phase Desc: Comprehensive Site Assessment
RAO Class Desc:
Other Rela:

Unplottable Summary

Total: 101 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
ASBESTOS PROJECT	FOREST AVE. ELEMENTARY SCHOOL	FOREST AVE.	HUDSON MA		885364090
ASBESTOS PROJECT	FOREST AVE. SCHOOL	FOREST AVE.	HUDSON MA		885455734
ASBESTOS PROJECT	MULREADY SCHOOL	COX STREET	HUDSON MA		885537008
ASBESTOS PROJECT	FOREST AVE. SCHOOL	FOREST AVE.	HUDSON MA		885390861
ASBESTOS PROJECT	HUDSON MULREADY SCHOOL	COX STREET	HUDSON MA		885307302
AUL	HUDSON MUNICIPAL PARKING LOT	SOUTH ST ADJACENT TO 25	HUDSON MA		809196544
BROWNFIELDS	No Location Aid	Lot 215 Coolidge St	Hudson MA		877457940
BROWNFIELDS COV	Hudson: Village-style Residential Project at Former Wool Processing Facility	Wheeler Road	Hudson MA		817847140
CERCLIS	HUDSON WORSTED LAGOONS (FORMER)	OFF WHEELER RD <i>Site EPA ID: MAD985278142</i>	HUDSON MA	01749	805419822
CERCLIS NFRAP	HUDSON WORSTED LAGOONS (FORMER)	OFF WHEELER RD <i>Site EPA ID: MAD985278142</i>	HUDSON MA	1749	805468902
ERNS		WILKINS STREET	HUDSON MA	01749	806599309

ERNS		FOREST AVE	HUDSON MA		806911311
FINDS/FRS	NEW ENGLAND TELE	BOSTON POST RD	SUDBURY MA	01776	816607725
FINDS/FRS	HUDSON LIGHT AND POWER DEPARTMENT	FOREST AVENUE	HUDSON MA	01749-0000	865970526
HIS SPILLS	CARLISLE SCREW CORP.	CHERRY ST.,BEHIND HUDSON LIGHT <i>Spill ID Case Closed: C85-0060 YES</i>	HUDSON MA		809150119
HIS SPILLS	STRATTON HILL/MYSTERY RELEASE	MAIN ST. (INTO STOW) <i>Spill ID Case Closed: C86-0064 YES</i>	HUDSON MA		809150247
HIS SPILLS	MARLBOROUGH FIRE STATION	MAIN ST., RTE 20 <i>Spill ID Case Closed: C89-0612 YES</i>	MARLBOROUGH MA		809150336
HIS SPILLS	NEAR MARLBORO LINE	CHESTNUT ST. <i>Spill ID Case Closed: C86-0133 YES</i>	HUDSON MA		809150388
HIS SPILLS	HUDSON LIGHT AND POWER	FOREST AVE. <i>Spill ID Case Closed: C91-0357 YES</i>	HUDSON MA		809172753
HIS SPILLS	OIL IN POND ABOVE SPILLWAY	MAIN ST. <i>Spill ID Case Closed: C91-0090 YES</i>	HUDSON MA		809168141
HIS SPILLS	HUDSON LIGHT & POWER	CHERRY ST. <i>Spill ID Case Closed: C90-0433 YES</i>	HUDSON MA		809168037
HIS SPILLS		BOSTON POST RD/ROUTE 20 <i>Spill ID Case Closed: N86-0753 YES</i>	SUDBURY MA		809167632
HIS SPILLS	HUDSON LIGHT & POWER	CHERRY ST. <i>Spill ID Case Closed: C91-0519 YES</i>	HUDSON MA		809164197
HIS SPILLS	DRUM LEAK ON TRUCK	FOREST AVE. <i>Spill ID Case Closed: C90-0413 YES</i>	HUDSON MA		809163286
HIS SPILLS		CHERRY ST	HUDSON MA		809163283

Spill ID | Case Closed: C90-0096 | YES

HIS SPILLS	POLE #18/87X	BOSTON POST RD	SUDBURY MA	809159736
		<i>Spill ID Case Closed:</i> N91-0670 YES		
HIS SPILLS	ZINA PIG FARMS	ZINA RD.	HUDSON MA	809151776
		<i>Spill ID Case Closed:</i> C85-0119 YES		
HIS SPILLS	GOTHAM, INC.	BOSTON POST RD.	MARLBOROUGH MA	809151440
		<i>Spill ID Case Closed:</i> C89-0512 YES		
HIS SPILLS	TANKER TRUCK SPILL	BOSTON POST RD.	MARLBOROUGH MA	809151144
		<i>Spill ID Case Closed:</i> C87-0499 YES		
HIS SPILLS	COX ST. SCHOOL	COX ST.	HUDSON MA	809151139
		<i>Spill ID Case Closed:</i> C87-0273 YES		
HIS SPILLS	INDIAN HILL PARK	BOSTON POST RD./RTE 20	MARLBOROUGH MA	809150832
		<i>Spill ID Case Closed:</i> C89-0440 YES		
HIS SPILLS		COX ST, EAST MAIN ST	HUDSON MA	809150656
		<i>Spill ID Case Closed:</i> C87-0430 YES		
HIS SPILLS	INSTRESS INC.	KANE INDUSTRIAL PARK	HUDSON MA	809150514
		<i>Spill ID Case Closed:</i> C86-0392 YES		
HIS SPILLS		CAUSEWAY STREET	HUDSON MA	809149897
		<i>Spill ID Case Closed:</i> C88-0273 YES		
HIS SPILLS	HUDSON LIGHT & POWER, POLE #11	COX STREET,	HUDSON MA	809150427
		<i>Spill ID Case Closed:</i> C88-0284 YES		
HIST LAST	HUDSON LIGHT & POWER CO.	CHERRY ST., AT ASSABET RIVER	HUDSON MA	809180355
		<i>Spill ID Case Closed:</i> C89-0510 YES		
HIST LUST	US ARMY, NATICK R&D CENTER	BRUEN ST.	HUDSON MA	809180047
		<i>Spill ID Case Closed:</i> C91-0437 YES		
HMIRS		FOREST AVE	MARLBORO MA	818117846

LST	TOWN OF SUDBURY	WOODSIDE RD	SUDBURY MA	01776-0000	817850837
		<i>Site No Current Date Status Desc:</i> 3-0016916 8/21/1998 Response Action Outcome			
LST	MA HIGHWAY DEPT	BOSTON POST RD RTE 20	SUDBURY MA	01776-0000	817857211
		<i>Site No Current Date Status Desc:</i> 3-0014245 11/18/1996 Response Action Outcome			
LUST	MA HIGHWAY DEPT	BOSTON POST RD RTE 20	SUDBURY MA		809208507
		<i>RTN:</i> 3-0014245			
LUST	TOWN OF SUDBURY	WOODSIDE RD	SUDBURY MA		809210213
		<i>RTN:</i> 3-0016916			
LUST	NO LOCATION AID	FRENCH ROAD	SUDBURY MA		858492358
		<i>RTN:</i> 3-0030731			
ODI	SAND HILL SANITARY LANDFILL	OFF BOSTON POST ROAD ROUTE 20	SUDBURY MA		807251830
PCB	HUDSON LIGHT AND POWER	CHERRY ST	HUDSON MA	01749	859627746
RCRA NON GEN	INSTRESS INC	KANE INDUSTRIAL DR	HUDSON MA	01749	810137476
		<i>EPA Handler ID:</i> MAD049423676			
RCRA NON GEN	DATA CARD DATATROL	BRENT DR	HUDSON MA	01749	810142231
		<i>EPA Handler ID:</i> MAD049442510			
RCRA NON GEN	NEW ENGLAND TELE	BOSTON POST RD	SUDBURY MA	01776	810213210
		<i>EPA Handler ID:</i> MAD980522700			
RCRA NON GEN	HUDSON LIGHT AND POWER DEPARTMENT	FOREST AVENUE	HUDSON MA	01749-0000	862163923
		<i>EPA Handler ID:</i> MAD000881870			
RELEASE	MA HIGHWAY DEPT	BOSTON POST RD RTE 20	SUDBURY MA		858508613
		<i>RTN:</i> 3-0014245 <i>Current Status:</i> RAO			
RELEASE	TOWN OF SUDBURY	WOODSIDE RD	SUDBURY MA		858505004
		<i>RTN:</i> 3-0016916 <i>Current Status:</i> RAO			

RELEASE	CHESTNUT STREET WELL	CHESTNUT STREET <i>RTN:</i> 2-0020907 <i>Current Status:</i> TIER1D	HUDSON MA	876046186
RELEASE	NO LOCATION AID	FRENCH ROAD <i>RTN:</i> 3-0030731 <i>Current Status:</i> RAO	SUDBURY MA	809216310
RELEASE	ADJACENT TO #32 EMERSON WAY	EMERSON WAY <i>RTN:</i> 3-0028852 <i>Current Status:</i> RAO	SUDBURY MA	809242480
RELEASE	MASS HIGHWAY DEPT	MAIN STREET ROUTE 62 <i>RTN:</i> 2-0016496 <i>Current Status:</i> RAO	HUDSON MA	809240811
RELEASE	INTERSECTION	BOSTON POST RD <i>RTN:</i> 3-0027918 <i>Current Status:</i> URAM	SUDBURY MA	809239707
RELEASE	HUDSON MUNICIPAL PARKING LOT	SOUTH ST ADJACENT TO 25 <i>RTN:</i> 2-0017073 <i>Current Status:</i> RAO	HUDSON MA	809238986
RELEASE	MHD STAGING AREA - SUDBURY RIV BRIDGE	BOSTON POST RD <i>RTN:</i> 3-0027875 <i>Current Status:</i> RAO	WAYLAND MA	809238717
RELEASE	NO LOCATION AID	OLD LANCASTER RD <i>RTN:</i> 3-0011165 <i>Current Status:</i> RAO	SUDBURY MA	809238157
RELEASE	RIVERSIDE FARM ESTATES	OFF ZINA RD <i>RTN:</i> 2-0016023 <i>Current Status:</i> RAO	HUDSON MA	809237929
RELEASE	BEHIND 4 LAKESHORE DR	DUDLEY POND <i>RTN:</i> 3-0011146 <i>Current Status:</i> RAO	WAYLAND MA	809237220
RELEASE	SEPTAGE FACILITY	BOSTON POST RD <i>RTN:</i> 3-0001724 <i>Current Status:</i> DEPND5	WAYLAND MA	809235349
RELEASE	MASS HGWY DEPOT NEAR OLD COUNTY RD	BOSTON POST RD RTE 20 <i>RTN:</i> 3-0018306 <i>Current Status:</i> RAO	SUDBURY MA	809234784

RELEASE	ASSABET RIVER RAIL TRAIL	MAKIN AND COX ST (STATION 61 A) <i>RTN:</i> 2-0015037 <i>Current Status:</i> RAO	MARLBOROUGH MA	809232304
RELEASE	HUDSON POWER & LIGHT	CAUSEWAY ST <i>RTN:</i> 2-0011992 <i>Current Status:</i> RAO	HUDSON MA	809232246
RELEASE	NO LOCATION AID	STONE RD <i>RTN:</i> 3-0015866 <i>Current Status:</i> RAO	SUDBURY MA	809231651
RELEASE	CONCORD ST	BOSTON POST RD (RTE 20) <i>RTN:</i> 3-0015581 <i>Current Status:</i> RAO	SUDBURY MA	809227942
RELEASE	NO LOCATION AID	LOT 215 COOLIDGE ST <i>RTN:</i> 2-0015912 <i>Current Status:</i> RAO	HUDSON MA	809227649
RELEASE	BANKS OF ASSABET RIVER	WHEELER RD <i>RTN:</i> 2-0010972 <i>Current Status:</i> RAO	HUDSON MA	809226576
RELEASE	NO LOCATION AID	PARMENTER RD AND WHITE POND RD <i>RTN:</i> 2-0012521 <i>Current Status:</i> RAO	HUDSON MA	809226252
RELEASE	HYDRAULIC RELEASE	GREEN ST <i>RTN:</i> 2-0013521 <i>Current Status:</i> RAO	HUDSON MA	809225484
RELEASE	HUDSON LIGHT & POWER DEPT.	CHERRY ST <i>RTN:</i> 2-0000667 <i>Current Status:</i> RAO	HUDSON MA	809224367
RELEASE	ROADWAY RELEASE	BOSTON POST RD <i>RTN:</i> 2-0013392 <i>Current Status:</i> RAO	MARLBOROUGH MA	809223687
RELEASE	M & M TRANSPORT CO	BOSTON POST RD <i>RTN:</i> 2-0012696 <i>Current Status:</i> RAO	MARLBOROUGH MA	809223039

RELEASE	VEHICLE ACCIDENT	CHESTNUT ST <i>RTN:</i> 2-0021008 <i>Current Status:</i> PSNC	HUDSON MA		879764968
RELEASE	THOMAS TAYLOR & SONS FMR	HOUGHTON ST <i>RTN:</i> 2-0011383 <i>Current Status:</i> RAO	HUDSON MA		809223393
SEMS	WATERS MANUFACTURING CO	BOSTON POST ROAD <i>EPA ID:</i> MAD982547424	WAYLAND MA	01778	828835623
SEMS ARCHIVE	HUDSON WORSTED LAGOONS (FORMER)	OFF WHEELER RD <i>EPA ID:</i> MAD985278142	HUDSON MA	01749	828854986
SPILLS	M & M TRANSPORT CO	BOSTON POST RD	MARLBOROUGH MA	01752-0000	835055820
SPILLS	BANKS OF ASSABET RIVER	WHEELER RD	HUDSON MA	01749-0000	835029589
SPILLS	MHD STAGING AREA - SUDBURY RIV BRIDGE	BOSTON POST RD	WAYLAND MA	01778-0000	835020599
SPILLS	HUDSON MUNICIPAL PARKING LOT	SOUTH ST ADJACENT TO 25	HUDSON MA		835065871
SPILLS	ADJACENT TO #32 EMERSON WAY	EMERSON WAY	SUDBURY MA	01776-0000	835065203
SPILLS	ASSABET RIVER RAIL TRAIL	MAKIN AND COX ST (STATION 61 A)	MARLBOROUGH MA	01752-0000	835064945
SPILLS	NO LOCATION AID	FRENCH ROAD	SUDBURY MA	01776-0000	835040540
SPILLS	SEPTAGE FACILITY	BOSTON POST RD	WAYLAND MA	01778	835039218
SPILLS	MA HIGHWAY DEPT	BOSTON POST RD RTE 20	SUDBURY MA	01776-0000	835063574
SPILLS	NO LOCATION AID	STONE RD	SUDBURY MA	01776-0000	835060638

SPILLS	ROADWAY RELEASE	BOSTON POST RD	MARLBOROUGH MA	01752-0000	835059863
SPILLS	NO LOCATION AID	OLD LANCASTER RD	SUDBURY MA	01776	835059038
SPILLS	TOWN OF SUDBURY	WOODSIDE RD	SUDBURY MA	01776-0000	835058410
SPILLS	HUDSON POWER & LIGHT	CAUSEWAY ST	HUDSON MA	01749-0000	835056620
SPILLS	THOMAS TAYLOR & SONS FMR	HOUGHTON ST	HUDSON MA	01749-0000	835067379
SPILLS	INTERSECTION	BOSTON POST RD	SUDBURY MA	01776-0000	835053902
SPILLS	RIVERSIDE FARM ESTATES	OFF ZINA RD	HUDSON MA	01749-0000	835043648
SPILLS	CONCORD ST	BOSTON POST RD (RTE 20)	SUDBURY MA	01776-0000	835042636
SPILLS	NO LOCATION AID	LOT 215 COOLIDGE ST	HUDSON MA	01749-0000	835064487
SPILLS	HUDSON LIGHT & POWER DEPT.	CHERRY ST	HUDSON MA	01749-0000	835037230
SPILLS	BEHIND 4 LAKESHORE DR	DUDLEY POND	WAYLAND MA	01778	835034922
SPILLS	MASS HGWY DEPOT NEAR OLD COUNTY RD	BOSTON POST RD RTE 20	SUDBURY MA	01776-0000	835032799
SPILLS	HYDRAULIC RELEASE	GREEN ST	HUDSON MA	01749-0000	835021927

Unplottable Report

Site: FOREST AVE. ELEMENTARY SCHOOL
FOREST AVE. HUDSON MA

ASBESTOS PROJECT

Project ID: 100149802
Form Type: ANF-001
Project Type: Rpr
Owner Name: HUDSON PUBLIC SCHOOLS
Owner address: 155 APSLEY STREET
DLS Contractor: ENVIRONMENTAL SOLUTIONS INC
DLS Contractor ID: AC000042
Site Supervisor: Pha Phen
Site Supervisor ID: AS001709

Project Start Dt: 06/19/2012
Project End Dt: 06/19/2012

Site: FOREST AVE. SCHOOL
FOREST AVE. HUDSON MA

ASBESTOS PROJECT

Project ID: 100229990
Form Type: ANF-001
Project Type: Renv
Owner Name: HUDSON PUBLIC SCHOOLS
Owner address: 155 APSLEY ST.
DLS Contractor: ENVIRONMENTAL SOLUTIONS INC
DLS Contractor ID: AC000042
Site Supervisor: THOUEN KOCH
Site Supervisor ID: AS061339

Project Start Dt: 10/12/2015
Project End Dt: 10/13/2015

Site: MULREADY SCHOOL
COX STREET HUDSON MA

ASBESTOS PROJECT

Project ID: 754946
Form Type: ANF-001
Project Type: RENOVATION
Owner Name: HUDSON PUBLIC SCHOOL
Owner address: 155 APSLEY STREET
DLS Contractor: NEW ENGLAND SURFACE MAINTENANCE LLP
DLS Contractor ID: AC000196
Site Supervisor: PAUL W BROWN
Site Supervisor ID: AS040577

Project Start Dt: 07/19/2002
Project End Dt: 07/19/2002

Site: FOREST AVE. SCHOOL
FOREST AVE. HUDSON MA

ASBESTOS PROJECT

Project ID: 100229990R1
Form Type: ANF-001
Project Type: Renv
Owner Name: HUDSON PUBLIC SCHOOLS
Owner address: 155 APSLEY ST.
DLS Contractor: ENVIRONMENTAL SOLUTIONS INC
DLS Contractor ID: AC000042
Site Supervisor: THOUEN KOCH
Site Supervisor ID: AS061339

Project Start Dt: 10/12/2015
Project End Dt: 10/13/2015

Site: HUDSON MULREADY SCHOOL
COX STREET HUDSON MA

ASBESTOS PROJECT

Project ID: 100186592 **Project Start Dt:** 10/14/2013
Form Type: ANF-001 **Project End Dt:** 10/14/2013
Project Type: Rpr
Owner Name: HUDSON PUBLIC SCHOOLS
Owner address: 15 APSLEY STREET
DLS Contractor: ENVIRONMENTAL SOLUTIONS INC
DLS Contractor ID: AC000042
Site Supervisor: Pha Phen
Site Supervisor ID: AS001709

Site: HUDSON MUNICIPAL PARKING LOT
SOUTH ST ADJACENT TO 25 HUDSON MA

AUL

RTN: 2-0017073 **Phase:**
Compliance Status: RAO **Location Type(s):** MUNICIPAL, PRIVPROP
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** HUDSON MUNICIPAL PARKING LOT
Compliance Date: 5/1/2009 **Address (BWSC):** SOUTH ST ADJACENT TO 25
Notification Date: 5/5/2008 **Town (BWSC):** HUDSON
RAO Class: A3 **Zip Code (BWSC):**
Chemical Type: Oil **OFC Town (BWSC):** HUDSON
Reporting Category: 120 DY **Source(s):** UNKNOWN
Site Name (EEA Data Portal): HUDSON MUNICIPAL PARKING LOT
Release Add (EEA Data Portal): SOUTH ST ADJACENT TO 25
City/Town (EEA Data Portal): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017073>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017073>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A3
Current Date: 01-May-2009 **OHM:** Oil
OFC Notification: 05-May-2008
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Other Rela:

Chemical Information

Chemical: PETROLEUM
Amount:
Units:

Action Information

Date: 20-Nov-2013 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 11-Mar-2009 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ALSSENT
Status Description: Anniversary Letter Sent

RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 18-Sep-2008 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 01-May-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: FEEREC
Status Description: Fee Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 14-May-2008 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 19-Feb-2014 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 01-May-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 05-May-2008 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 05-May-2008 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: INTENT
Status Description: Notice of Intent to Conduct a URAM
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 29-Jun-2009 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: SNAUDI

Status Description: Level II - Audit Inspection
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 21-May-2009 **First Name:**
Action: URAM **Last Name:**
Action Description: Utility-related Abatement Measure
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 29-May-2014 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: AFUCS
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 21-Nov-2013 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 16-Apr-2009 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 19-Feb-2014 **First Name:**
Action: AUL **Last Name:**
Action Description: Activity and Use Limitation
Status: SNAUDI
Status Description: Level II - Audit Inspection
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 19-Feb-2014 **First Name:**
Action: AUDCOM **Last Name:**
Action Description:
Status: NAFNON
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 21-May-2009 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 06-Feb-2009 **First Name:**
Action: RNFE **Last Name:**
Action Description: Release Notification

Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Date: 01-May-2009
Action: URAM
Action Description: Utility-related Abatement Measure
Status: CSRCVD
Status Description: Completion Statement Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

First Name:
Last Name:

Date: 29-Jun-2009
Action: AUDCOM
Action Description:
Status: NAFNON
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

First Name:
Last Name:

Date: 14-May-2008
Action: RNF
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

First Name:
Last Name:

Date: 14-May-2008
Action: URAM
Action Description: Utility-related Abatement Measure
Status: URAMNT
Status Description: Notification of URAM Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

First Name:
Last Name:

Site: **No Location Aid**
Lot 215 Coolidge St Hudson MA

BROWNFIELDS

RTN: 2-0015912
Other RTNs:
Map Par ID:
Loc ID:
MCP Status: RAO
Site Name(MassDEP): No Location Aid
Address (MassDEP): Lot 215 Coolidge St
City (MassDEP): Hudson
Site Name (CERO):
Address (CERO):
City (CERO):
Data Source: MassDEP Brownfields List
Current Owner: Highland Commons Assoc Llc
Fact Sheet:

Rao: A2
Aul: No
Cocs: #2 Fuel Oil, Naphthalene
Former Use:
Current Use:
Total Acreage: 59.75
Shape Le:
Shape Ar:
Acres:
Shape Are:
Shape Len:

Site: **Hudson: Village-style Residential Project at Former Wool Processing Facility**
Wheeler Road Hudson MA

BROWNFIELDS COV

Title: Hudson: Village-style Residential Project at Former Wool Processing Facility
Year: 2006
Document Title: Hudson - Brownfields Covenant Document
Document URL: <http://www.mass.gov/ago/docs/environmental/bcntsa-hudson-thorndike.pdf>
Project Desc: Thorndike Development Corporation is cleaning up a 42-acre site contaminated with chemicals from a former wool processing facility, and building a village-style residential community on the site with open space and pedestrian-

Site: HUDSON WORSTED LAGOONS (FORMER)
OFF WHEELER RD HUDSON MA 01749

CERCLIS

Site ID:	0102107	RNPL Status Code:	N
Site EPA ID:	MAD985278142	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MIDDLESEX	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	25017	USGS Hydro Unit No.:	01070005
Region Code:	01	Site Cong. Dist. Code:	03
Site SMSA No.:		ROT Desc:	Private
Site Prim. Latitude:	04D22M32S	FR NPL Update No.:	
Site Prim. Longitude:	071D34M24S	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS Assess History

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	DS	Act Complete Date:	3/27/1990 00:00:00
RAT Short Name:	DISCVRY	AGT Order No.:	10
RAT Name:	DISCOVERY	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			
RAT Def:	No description available		
Site Desc:			
Site Alias:	THOMAS TAYLOR PITS,,MIDDLESEX,MA,;		

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	6/2/1993 00:00:00
RAT Code:	SI	Act Complete Date:	4/1/1994 00:00:00
RAT Short Name:	SI	AGT Order No.:	160
RAT Name:	SITE INSPECTION	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking		

score and/or enforcement support.

Site Desc:
Site Alias:

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	4/1/1994 00:00:00
RAT Short Name:	ARCH SITE	AGT Order No.:	1500
RAT Name:	ARCHIVE SITE	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The decision is made that no further activity is planned at the site.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	PA	Act Complete Date:	2/25/1991 00:00:00
RAT Short Name:	PA	AGT Order No.:	130
RAT Name:	PRELIMINARY ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
Site Desc:			
Site Alias:			

Site: HUDSON WORSTED LAGOONS (FORMER)
OFF WHEELER RD HUDSON MA 1749

CERCLIS NFRAP

Site ID:	102107	Site FIPS Code:	25017
Site EPA ID:	MAD985278142	Region Code:	1
Site Parent ID:		Site Cong. Dist. Code:	3
Site County Name:	MIDDLESEX	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	2/25/1991
RAT Code:	PA	AGT Order No.:	130
RAT Short Name:	PA	SH OU:	
RAT Name:	PRELIMINARY ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Low priority
RALT Short Name:	State (Fund)	RNPL Status Code:	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID: 0
Act Code ID: 1
RAT Code: SI
RAT Short Name: SI
RAT Name: SITE INSPECTION
RAT Hist. Only Flag:
RAT NSI Indicator: B
RAT Level: 1
RAT DEF OU: 00
RFBS Code: P
SPA Code: 13
RALT Short Name: EPA Fund
RAT Def: The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.
Act Start Date: 6/2/1993
Act Complete Date: 4/1/1994
AGT Order No.: 160
SH OU:
SH Code:
SH Seq:
SH Start Date:
SH Complete Date:
SH Lead:
SH Qual:
RAQ Act. Qual Short: NFRAP
RNPL Status Code: N
RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assess History

OU ID: 0
Act Code ID: 1
RAT Code: VS
RAT Short Name: ARCH SITE
RAT Name: ARCHIVE SITE
RAT Hist. Only Flag:
RAT NSI Indicator: B
RAT Level: 1
RAT DEF OU: 00
RFBS Code:
SPA Code: 13
RALT Short Name: EPA In-House
RAT Def: The decision is made that no further activity is planned at the site.
Act Start Date:
Act Complete Date: 4/1/1994
AGT Order No.: 1500
SH OU:
SH Code:
SH Seq:
SH Start Date:
SH Complete Date:
SH Lead:
SH Qual:
RAQ Act. Qual Short:
RNPL Status Code: N
RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assess History

OU ID: 0
Act Code ID: 1
RAT Code: DS
RAT Short Name: DISCVRY
RAT Name: DISCOVERY
RAT Hist. Only Flag:
RAT NSI Indicator: B
RAT Level: 1
RAT DEF OU: 00
RFBS Code:
SPA Code: 13
RALT Short Name: State (Fund)
RAT Def: The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.
Act Start Date:
Act Complete Date: 3/27/1990
AGT Order No.: 10
SH OU:
SH Code:
SH Seq:
SH Start Date:
SH Complete Date:
SH Lead:
SH Qual:
RAQ Act. Qual Short:
RNPL Status Code: N
RNON NPL Status Desc: NFRAP-Site does not qualify for the NPL based on existing information

Site:

WILKINS STREET HUDSON MA 01749

ERNS

NRC Report No: 556020
Type of Incident: FIXED
Incident Cause: DUMPING
Incident Date: 2/7/2001 7:30:00 PM
Incident Location:
Incident Dtg: OCCURRED
Distance from City:
Distance Units:
Direction from City:
Location County: MIDDLESEX
Potential Flag:
Year: Year 2001 Reports
Description of Incident: CALLER STATED THE SUSPECTED RESPONSIBLE PARTY SKEET AND TRAP RANCH IS RELEASING LEAD INTO ASSBETE RIVER
Latitude Degrees:
Latitude Minutes:
Latitude Seconds:
Longitude Degrees:
Longitude Minutes:
Longitude Seconds:
Lat Quad:
Long Quad:
Location Section:
Location Township:
Location Range:

Material Spill Information

Chris Code:	NCC	Unit of Measure:	UNKNOWN AMOUNT
CAS No:	000000-00-0	If Reached Water:	YES
UN No:		Amount in Water:	0
Name of Material:	LEAD	Unit Reach Water:	UNKNOWN AMOUNT
Amount of Material:	0		

Calls Information

Date Time Received:	2/7/2001 12:15:14 PM	Responsible City:	HUDSON
Date Time Complete:	2/7/2001 12:26:06 PM	Responsible State:	MA
Call Type:	INC	Responsible Zip:	01749
Resp Company:	RIVERSIDE GUN CLUB	Source:	TELEPHONE
Resp Org Type:	PRIVATE ENTERPRISE		

Incident Information

Tank ID:		Building ID:	
Tank Regulated:		Location Area ID:	
Tank Regulated By:		Location Block ID:	
Capacity of Tank:		OCSG No:	
Capacity Tank Units:		OOSP No:	
Description of Tank:		State Lease No:	
Actual Amount:		Pier Dock No:	
Actual Amount Units:		Berth Slip No:	
Tank Above Ground:		Brake Failure:	
NPDES:		Airbag Deployed:	
NPDES Compliance:		Transport Contain:	
Init Contin Rel No:		Location Subdiv:	
Contin Rel Permit:		Platform Rig Name:	
Contin Release Type:		Platform Letter:	
Aircraft ID:		Allision:	
Aircraft Runway No:		Type of Structure:	
Aircraft Spot No:		Structure Name:	
Aircraft Type:	UNKNOWN	Structure Oper:	
Aircraft Model:		Transit Bus Flag:	
Aircraft Fuel Cap:		Date Time Norm Serv:	
Aircraft Fuel Cap U:		Serv Disrupt Time:	
Aircraft Fuel on Brd:		Serv Disrupt Units:	
Aircraft Fuel OB U:		CR Begin Date:	
Aircraft Hanger:		CR End Date:	
Road Mile Marker:		CR Change Date:	
Power Gen Facility:		FBI Contact:	
Generating Capacity:		FBI Contact Dt Tm:	
Type of Fixed Obj:	UNKNOWN	Passenger Handling:	
Type of Fuel:		Passenger Route:	XXX
DOT Crossing No:		Passenger Delay:	XXX
DOT Regulated:		Sub Part C Test Req:	XXX
Pipeline Type:		Conductor Test:	
Pipeline Abv Ground:		Engineer Test:	
Pipeline Covered:		Trainman Test:	
Exposed Underwater:		Yard Foreman Test:	
Railroad Hotline:		RCL Operator Test:	
Railroad Milepost:		Brakeman Test:	
Grade Crossing:		Train Dispat Test:	
Crossing Device Ty:		Signalman Test:	
Ty Vehicle Involved:		Oth Employee Test:	
Device Operational:		Unknown Test:	

Incident Details Information

Release Secured:	U	State Agen Report No:	
Release Rate:		State Agen on Scene:	
Release Rate Unit:		State Agen Notified:	
Release Rate Rate:		Fed Agency Notified:	
Est Duration of Rel:		Oth Agency Notified:	

Desc Remedial Act:	NONE	Body of Water:	ASSBETE RIVER
Fire Involved:	N	Tributary of:	
Fire Extinguished:	U	Near River Mile Make:	
Any Evacuations:	N	Near River Mile Mark:	
No Evacuated:		Offshore:	N
Who Evacuated:		Weather Conditions:	
Radius of Evacu:		Air Temperature:	
Any Injuries:	N	Wind Direction:	
No. Injured:		Wind Speed:	
No. Hospitalized:		Wind Speed Unit:	
No. Fatalities:		Water Supp Contam:	U
Any Fatalities:	N	Water Temperature:	
Any Damages:	N	Wave Condition:	
Damage Amount:		Current Speed:	
Air Corridor Closed:	N	Current Direction:	
Air Corridor Desc:		Current Speed Unit:	
Air Closure Time:		EMPL Fatality:	
Waterway Closed:	N	Pass Fatality:	
Waterway Desc:		Community Impact:	N
Waterway Close Time:		Passengers Transfer:	UNK
Road Closed:	N	Passenger Injuries:	
Road Desc:		Employee Injuries:	
Road Closure Time:		Occupant Fatality:	
Road Closure Units:		Sheen Size:	
Closure Direction:		Sheen Size Units:	
Major Artery:	No	Sheen Size Length:	
Track Closed:	N	Sheen Size Length U:	
Track Desc:		Sheen Size Width:	
Track Closure Time:		Sheen Size Width U:	
Track Closure Units:		Sheen Color:	
Track Close Dir:		Dir of Sheen Travel:	
Media Interest:	NONE	Sheen Odor Desc:	
Medium Desc:	WATER	Duration Unit:	
Addl Medium Info:		Additional Info:	MATERIAL MAKES NO SHEEN ON THE WATER / CALLER STATED THE RELEASE HAPPENS EVERY TUESDAY/THURSDAY/SATURDAY AND SUNDAY

Site: FOREST AVE HUDSON MA ERNS

NRC Report No:	29758	Latitude Degrees:	
Type of Incident:	MOBILE	Latitude Minutes:	
Incident Cause:	OTHER	Latitude Seconds:	
Incident Date:	7/6/1990 9:00:00 AM	Longitude Degrees:	
Incident Location:		Longitude Minutes:	
Incident Dtg:	OCCURRED	Longitude Seconds:	
Distance from City:		Lat Quad:	
Distance Units:		Long Quad:	
Direction from City:		Location Section:	
Location County:	MIDDLESEX	Location Township:	
Potential Flag:		Location Range:	
Year:	Year 1990 Reports		
Description of Incident:	15 GAL CONTAINER IN A TRUCK / CONTAINER OVERTURNED IN THE TRUCK		

Material Spill Information

Chris Code:	PER	Unit of Measure:	GALLON(S)
CAS No:		If Reached Water:	YES
UN No:		Amount in Water:	0
Name of Material:	PERCHLOROETHYLENE	Unit Reach Water:	NONE
Amount of Material:	4		

Calls Information

Date Time Received:	7/6/1990 11:53:42 AM	Responsible City:	MEDFORD
Date Time Complete:	7/6/1990 11:58:16 AM	Responsible State:	MA
Call Type:	INC	Responsible Zip:	02155

Resp Company: SAFETY KLEEN CORP.
Resp Org Type: PRIVATE ENTERPRISE

Source: UNAVAILABLE

Incident Information

Tank ID:
Tank Regulated: U
Tank Regulated By:
Capacity of Tank:
Capacity Tank Units:
Description of Tank:
Actual Amount:
Actual Amount Units:
Tank Above Ground: ABOVE
NPDES:
NPDES Compliance: U
Init Contin Rel No:
Contin Rel Permit:
Contin Release Type:
Aircraft ID:
Aircraft Runway No:
Aircraft Spot No:
Aircraft Type: UNKNOWN
Aircraft Model:
Aircraft Fuel Cap:
Aircraft Fuel Cap U:
Aircraft Fuel on Brd:
Aircraft Fuel OB U:
Aircraft Hanger:
Road Mile Marker:
Power Gen Facility: U
Generating Capacity:
Type of Fixed Obj: UNKNOWN
Type of Fuel:
DOT Crossing No:
DOT Regulated: U
Pipeline Type: UNKNOWN
Pipeline Abv Ground: ABOVE
Pipeline Covered: U
Exposed Underwater: U
Railroad Hotline: No
Railroad Milepost: UNKNOWN
Grade Crossing: N
Crossing Device Ty:
Ty Vehicle Involved: UNKNOWN
Device Operational: Y

Building ID:
Location Area ID:
Location Block ID:
OCSG No:
OCSF No:
State Lease No:
Pier Dock No:
Berth Slip No:
Brake Failure: N
Airbag Deployed:
Transport Contain: U
Location Subdiv:
Platform Rig Name:
Platform Letter:
Allision: N
Type of Structure:
Structure Name:
Structure Oper: Y
Transit Bus Flag:
Date Time Norm Serv:
Serv Disrupt Time:
Serv Disrupt Units:
CR Begin Date:
CR End Date:
CR Change Date:
FBI Contact:
FBI Contact Dt Tm:
Passenger Handling:
Passenger Route: XXX
Passenger Delay: XXX
Sub Part C Test Req: XXX
Conductor Test:
Engineer Test:
Trainman Test:
Yard Foreman Test:
RCL Operator Test:
Brakeman Test:
Train Dispat Test:
Signalman Test:
Oth Employee Test:
Unknown Test:

Incident Details Information

Release Secured: U
Release Rate:
Release Rate Unit:
Release Rate Rate:
Est Duration of Rel:
Desc Remedial Act: THEY RECOVERED WHAT MATERIAL THAT THEY COULD
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
No Evacuated:
Who Evacuated:
Radius of Evacu:
Any Injuries: U
No. Injured:
No. Hospitalized:
No. Fatalities:
Any Fatalities: U
Any Damages: N
Damage Amount:

State Agen Report No:
State Agen on Scene:
State Agen Notified:
Fed Agency Notified:
Oth Agency Notified:
Body of Water:
Tributary of:
Near River Mile Make:
Near River Mile Mark:
Offshore: N
Weather Conditions:
Air Temperature:
Wind Direction:
Wind Speed:
Wind Speed Unit:
Water Supp Contam: U
Water Temperature:
Wave Condition:
Current Speed:

Air Corridor Closed: N
Air Corridor Desc:
Air Closure Time:
Waterway Closed: N
Waterway Desc:
Waterway Close Time:
Road Closed: N
Road Desc:
Road Closure Time:
Road Closure Units:
Closure Direction:
Major Artery: No
Track Closed: N
Track Desc:
Track Closure Time:
Track Closure Units:
Track Close Dir:
Media Interest:
Medium Desc: LAND
Addl Medium Info: GROUND

Current Direction:
Current Speed Unit:
EMPL Fatality:
Pass Fatality:
Community Impact: N
Passengers Transfer: UNK
Passenger Injuries:
Employee Injuries:
Occupant Fatality:
Sheen Size:
Sheen Size Units:
Sheen Size Length:
Sheen Size Length U:
Sheen Size Width:
Sheen Size Width U:
Sheen Color:
Dir of Sheen Travel:
Sheen Odor Desc:
Duration Unit:
Additional Info: APPROX 2 GAL EXITED THE TRUCK AND WAS NOT ABLE TO BE RECOVERED

Site: NEW ENGLAND TELE
BOSTON POST RD SUDBURY MA 01776

FINDS/FRS

Registry ID: 110008408838
FIPS Code: 25017
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 01-MAR-00
Update Date: 29-SEP-11
Interest Types: STATE MASTER, UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 01
County Name: MIDDLESEX
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110008408838
Program Acronyms:

MA-EPICS:399826, RCRAINFO:MAD980522700

Site: HUDSON LIGHT AND POWER DEPARTMENT
FOREST AVENUE HUDSON MA 01749-0000

FINDS/FRS

Registry ID: 110070120701
FIPS Code: 25017
HUC Code:
Site Type Name: STATIONARY

Location Description:
Supplemental Location:
Create Date: 17-OCT-17
Update Date:
Interest Types: UNSPECIFIED UNIVERSE
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 01
County Name: MIDDLESEX COUNTY
US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070120701
Program Acronyms:

RCRAINFO:MAD000881870

Site: **CARLISLE SCREW CORP.**
CHERRY ST.,BEHIND HUDSON LIGHT HUDSON MA

HIS SPILLS

Spill ID:	C85-0060	Repo Units Spilled:	-----
Site ID:	0000	Act. Qty Spilled:	UNKNOWN
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	NO	Spill Date:	
Incident:	SPILL	Spill Time:	04:15PM
Other Incident:		Rport Date:	
Source:	PIPE/HOSE/LINE	Rport Time:	05:45PM
Other Source:		Notifier:	HUDSON FIRE DEPT.
Petro/Hazardous:	UNKNOWN	Notifier Phone:	
Virgin/Waste:	-----	First IR Form:	
Material:	OTHER MATERIAL -->	Staff Lead:	AHEARN, P
Other Material:	WHITE SOAP LIKE LIQUID	Category:	
Enviro Impact:		Days For Case:	1
Other Env. Impact:		Report pre by:	
Contaminated Soil:		Contractor:	NOT USED
PCB Ranges:	-----	Referral Divisions:	WPC
Reported Qty Spilled:	UNKNOWN		
CAS NO for Haz Waste:			
SPL Info. 1st Entered:			
SPL Info. Last Entered:			

Site: **STRATTON HILL/MYSTERY RELEASE**
MAIN ST. (INTO STOW) HUDSON MA

HIS SPILLS

Spill ID:	C86-0064	Repo Units Spilled:	-----
Site ID:	0000	Act. Qty Spilled:	UNKNOWN
Case Closed:	YES	Act. Units Spilled:	-----
LUST:	NO	Spill Date:	
Incident:	OTHER RELEASE >	Spill Time:	
Other Incident:	UNKNOWN	Rport Date:	
Source:	OTHER SOURCE >	Rport Time:	04:00PM
Other Source:	UNKNOWN	Notifier:	CHIEF HOLLISK/HUDSON FD

Petro/Hazardous: PETROLEUM
Virgin/Waste: -----
Material: #2 FUEL OIL
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: -----
Reported Qty Spilled: UNKNOWN
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Notifier Phone:
First IR Form:
Staff Lead: SCIANNAMEO, F
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: **MARLBOROUGH FIRE STATION**
MAIN ST., RTE 20 MARLBOROUGH MA

[HIS SPILLS](#)

Spill ID: C89-0612
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: OTHER RELEASE >
Other Incident: NO RELEASE
Source: DRUM
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: OTHER MATERIAL -->
Other Material: GASOLINE CONTAM. DEBRIS
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: LESS THAN 1
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: DRUMS
Act. Qty Spilled: LESS THAN 1
Act. Units Spilled: DRUMS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 11:30AM
Notifier: J PELLITIER/MARLBORO FD
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 71
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: **NEAR MARLBORO LINE**
CHESTNUT ST. HUDSON MA

[HIS SPILLS](#)

Spill ID: C86-0133
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: OTHER RELEASE >
Other Incident: UNKNOWN
Source: OTHER SOURCE >
Other Source: UNKNOWN
Petro/Hazardous: UNKNOWN
Virgin/Waste: -----
Material: OTHER MATERIAL -->
Other Material: RED GELATIN SUBSTANCE
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: -----
Reported Qty Spilled: UNKNOWN
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: -----
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: -----
Spill Date:
Spill Time:
Rport Date:
Rport Time: 06:45PM
Notifier: J PONTERO/HUDSON FD
Notifier Phone:
First IR Form:
Staff Lead: OTHER
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: HW

Site: **HUDSON LIGHT AND POWER**
FOREST AVE. HUDSON MA

[HIS SPILLS](#)

Spill ID: C91-0357
Repo Units Spilled: GALLONS

Site ID: 0000
Case Closed: YES
LUST: NO
Incident: LEAK
Other Incident:
Source: PIPE/HOSE/LINE
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: LUBRICATING OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 1-10
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Act. Qty Spilled: -----
Act. Units Spilled: GALLONS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 02:30PM
Notifier: HUDSON L & P
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: OIL IN POND ABOVE SPILLWAY
MAIN ST. HUDSON MA

HIS SPILLS

Spill ID: C91-0090
Site ID: 0000
Case Closed: YES
LUST: ---
Incident: -----
Other Incident:
Source: -----
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: #2 FUEL OIL
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: UNKNOWN
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: 10-50
Act. Units Spilled: GALLONS
Spill Date:
Spill Time:
Rport Date:
Rport Time:
Notifier: HUDSON F.D.
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 0
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: HUDSON LIGHT & POWER
CHERRY ST. HUDSON MA

HIS SPILLS

Spill ID: C90-0433
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: LEAK
Other Incident:
Source: PIPE/HOSE/LINE
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: #2 FUEL OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: UNKNOWN
Reported Qty Spilled: -----
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: -----
Act. Qty Spilled: -----
Act. Units Spilled: -----
Spill Date:
Spill Time: 01:00PM
Rport Date:
Rport Time: 02:00PM
Notifier: YAKOV LEVEN/HUDSON L&P
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 14
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: BOSTON POST RD/ROUTE 20 SUDBURY MA

HIS SPILLS

Spill ID: N86-0753
Site ID: 0000
Case Closed: YES
LUST:
Incident:
Other Incident:
Source:
Other Source:
Petro/Hazardous:
Virgin/Waste:
Material: DIESEL FUEL
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges:
Reported Qty Spilled: ~ 10 GALS.
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled:
Act. Qty Spilled:
Act. Units Spilled:
Spill Date:
Spill Time:
Rport Date:
Rport Time:
Notifier:
Notifier Phone:
First IR Form:
Staff Lead: BRADLEY, R
Category:
Days For Case: 1
Report pre by:
Contractor:
Referral Divisions:

Site: HUDSON LIGHT & POWER
CHERRY ST. HUDSON MA

HIS SPILLS

Spill ID: C91-0519
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: -----
Other Incident:
Source: -----
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: -----
Material: MISCELLANEOUS OIL
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: UNKNOWN
Reported Qty Spilled: SHEEN
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: -----
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: GALLONS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 12:00PM
Notifier: DICK HANSON
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: DRUM LEAK ON TRUCK
FOREST AVE. HUDSON MA

HIS SPILLS

Spill ID: C90-0413
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: SPILL
Other Incident:
Source: DRUM
Other Source:
Petro/Hazardous: HAZARDOUS
Virgin/Waste: WASTE
Material: PERCHLOROETHYLENE
Other Material:
Enviro Impact: SOIL

Repo Units Spilled: GALLONS
Act. Qty Spilled: LESS THAN 1
Act. Units Spilled: GALLONS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 09:30AM
Notifier: CHIEF GARRITY/FD/562-5565
Notifier Phone:
First IR Form:
Staff Lead: COOPERMAN, S
Category:
Days For Case: 17

Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 10-50
CAS NO for Haz Waste: 00127-18-4
SPL Info. 1st Entered:
SPL Info. Last Entered:

Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: CHERRY ST HUDSON MA

HIS SPILLS

Spill ID: C90-0096
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: LEAK
Other Incident:
Source: OTHER SOURCE >
Other Source: ENGINE FAILURE
Petro/Hazardous: HAZARDOUS
Virgin/Waste: WASTE
Material: ETHELYNE GLYCOL, A/FREEZE
Other Material:
Enviro Impact: -----
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 11-50
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: -----
Spill Date:
Spill Time: 08:00AM
Rport Date:
Rport Time: 10:00AM
Notifier: Y LEVIN
Notifier Phone:
First IR Form:
Staff Lead: SALVADORE, D
Category:
Days For Case: -1418
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: POLE #18/87X
BOSTON POST RD SUDBURY MA

HIS SPILLS

Spill ID: N91-0670
Site ID: 3-3224
Case Closed: YES
LUST: ---
Incident: OTHER RELEASE >
Other Incident: LIGHTNING HIT
Source: TRANSFORMER
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: WASTE
Material: TRANSFORMER OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: 1-50 PPM
Reported Qty Spilled: 11-50
CAS NO for Haz Waste:
SPL Info. 1st Entered: 10/3/1991
SPL Info. Last Entered: 8/28/1992

Repo Units Spilled: GALLONS
Act. Qty Spilled: -----
Act. Units Spilled: -----
Spill Date: 5/18/1991
Spill Time: 08:30AM
Rport Date: 5/18/1991
Rport Time: 01:15PM
Notifier: P CAMPI/BOSTON EDISON
Notifier Phone:
First IR Form: 5/18/1991
Staff Lead: HURLBUT, S
Category:
Days For Case: 222
Report pre by:
Contractor: NOT USED
Referral Divisions: SA

Site: ZINA PIG FARMS
ZINA RD. HUDSON MA

HIS SPILLS

Spill ID: C85-0119
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: -----
Other Incident:

Repo Units Spilled: -----
Act. Qty Spilled: -----
Act. Units Spilled: -----
Spill Date:
Spill Time: 06:00PM
Rport Date:

Source: -----
Other Source:
Petro/Hazardous: NEITHER
Virgin/Waste: -----
Material: OTHER MATERIAL -->
Other Material: AIR RELEASE FROM BURNING
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: -----
Reported Qty Spilled: -----
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Rport Time: 07:30PM
Notifier: JOHN BLOOD, HUDSON FIRE D
Notifier Phone:
First IR Form:
Staff Lead: SCIANNAMEO, F
Category:
Days For Case: 0
Report pre by:
Contractor: NOT USED
Referral Divisions: SW

Site: GOTHAM, INC.
BOSTON POST RD. MARLBOROUGH MA

[HIS SPILLS](#)

Spill ID: C89-0512
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: DUMPING
Other Incident:
Source: OTHER SOURCE >
Other Source: 5 GAL CONTAINER
Petro/Hazardous: HAZARDOUS
Virgin/Waste: -----
Material: OTHER MATERIAL -->
Other Material: TITANIUM DIOXIDE
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: -----
Reported Qty Spilled: 1-10
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: POUNDS
Act. Qty Spilled: 1-10
Act. Units Spilled: 1-10
Spill Date:
Spill Time:
Rport Date: 03:00PM
Notifier:
Notifier Phone:
First IR Form:
Staff Lead: DUNLOP, C
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: HW

Site: TANKER TRUCK SPILL
BOSTON POST RD. MARLBOROUGH MA

[HIS SPILLS](#)

Spill ID: C87-0499
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: OTHER RELEASE >
Other Incident: UNKNOWN
Source: VEH. FUEL TANK
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: DIESEL FUEL
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 101-250
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: 101-250
Act. Units Spilled: GALLONS
Spill Date:
Spill Time: 02:00PM
Rport Date:
Rport Time: 02:00PM
Notifier: PELLETIER/FD
Notifier Phone:
First IR Form:
Staff Lead: JOHNSTON, D
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: COX ST. SCHOOL
COX ST. HUDSON MA

[HIS SPILLS](#)

Spill ID: C87-0273
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: OVERFILL
Other Incident:
Source: TANKER TRUCK
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: #2 FUEL OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: 10-50
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: 10-50
Act. Units Spilled: GALLONS
Spill Date:
Spill Time: 03:30PM
Rport Date:
Rport Time: 06:28PM
Notifier: J MULLALLY/ATLAS OIL CO.
Notifier Phone:
First IR Form:
Staff Lead: DUNLOP, C
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: INDIAN HILL PARK
BOSTON POST RD./RTE 20 MARLBOROUGH MA

HIS SPILLS

Spill ID: C89-0440
Site ID: 2-0661
Case Closed: YES
LUST: NO
Incident: DUMPING
Other Incident:
Source: PIPE/HOSE/LINE
Other Source:
Petro/Hazardous: HAZARDOUS
Virgin/Waste: WASTE
Material: OTHER MATERIAL -->
Other Material: PCB'S/TPH
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: 1-50 PPM
Reported Qty Spilled: -----
CAS NO for Haz Waste:
SPL Info. 1st Entered: 9/7/1989
SPL Info. Last Entered: 9/28/1989

Repo Units Spilled: -----
Act. Qty Spilled: -----
Act. Units Spilled: -----
Spill Date:
Spill Time:
Rport Date:
Rport Time:
Notifier:
Notifier Phone:
First IR Form: 7/24/1989
Staff Lead: SCHERER, M
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: SA

Site: COX ST, EAST MAIN ST HUDSON MA

HIS SPILLS

Spill ID: C87-0430
Site ID: 0000
Case Closed: YES
LUST:
Incident: DUMPING
Other Incident:
Source: OTHER SOURCE >
Other Source: UNKNOWN WHITE S
Petro/Hazardous: HAZARDOUS
Virgin/Waste: VIRGIN
Material: UNKNOWN
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges:
Reported Qty Spilled: NONE
CAS NO for Haz Waste:

Repo Units Spilled: _____
Act. Qty Spilled: NONE
Act. Units Spilled: _____
Spill Date:
Spill Time:
Rport Date:
Rport Time: 11:00AM
Notifier:
Notifier Phone:
First IR Form:
Staff Lead: JOHNSTON, D
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

SPL Info. 1st Entered:
SPL Info. Last Entered:

Site: INSTRESS INC.
KANE INDUSTRIAL PARK HUDSON MA

HIS SPILLS

Spill ID: C86-0392
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: DUMPING
Other Incident:
Source: OTHER SOURCE >
Other Source: MANUFACT. WASTE
Petro/Hazardous: HAZARDOUS
Virgin/Waste: WASTE
Material: OTHER MATERIAL -->
Other Material: MEK, PERCHLORETHYLENE
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges: -----
Reported Qty Spilled: 501-1000
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: GALLONS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 10:45
Notifier: TOM CONDON, EPA
Notifier Phone:
First IR Form:
Staff Lead: SALVADORE, D
Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: CAUSEWAY STREET HUDSON MA

HIS SPILLS

Spill ID: C88-0273
Site ID: 0000
Case Closed: YES
LUST:
Incident: SPILL
Other Incident:
Source: TRANSFORMER
Other Source:
Petro/Hazardous: HAZARDOUS
Virgin/Waste: VIRGIN
Material: PCB COOLANT
Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges:
Reported Qty Spilled: 1-10
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: GALLONS
Act. Qty Spilled: 1-10
Act. Units Spilled: GALLONS
Spill Date:
Spill Time: 11:00AM
Rport Date:
Rport Time: 12:30AM
Notifier:
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 469
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: HUDSON LIGHT & POWER, POLE #11
COX STREET, HUDSON MA

HIS SPILLS

Spill ID: C88-0284
Site ID: 0000
Case Closed: YES
LUST:
Incident: SPILL
Other Incident:
Source: TRANSFORMER
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: MISCELLANEOUS OIL

Repo Units Spilled: _____
Act. Qty Spilled: NONE
Act. Units Spilled: _____
Spill Date:
Spill Time: 04:30PM
Rport Date:
Rport Time: 09:45AM
Notifier:
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C

Other Material:
Enviro Impact:
Other Env. Impact:
Contaminated Soil:
PCB Ranges:
Reported Qty Spilled: NONE
CAS NO for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Category:
Days For Case: 1
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: HUDSON LIGHT & POWER CO.
CHERRY ST., AT ASSABET RIVER HUDSON MA

HIST LAST

Spill ID: C89-0510
Site ID: 2-0667
Case Closed: YES
LUST: NO
Incident: OTHER RELEASE >
Other Incident: OVERFLOW/RAIN
Source: ABOVE-GRND TANK
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: DIESEL FUEL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: UNKNOWN
CAS NO for Haz Waste:
SPL Info. 1st Entered: 9/8/1989
SPL Info. Last Entered: 8/12/1994

Repo Units Spilled: -----
Act. Qty Spilled: 5001-10,000
Act. Units Spilled: 5001-10,00
Spill Date:
Spill Time:
Rport Date: 8/27/1989
Rport Time: 01:30PM
Notifier:
Notifier Phone:
First IR Form: 8/27/1989
Staff Lead: BINGHAM, M
Category:
Days For Case: 3
Report pre by:
Contractor: NOT USED
Referral Divisions: SA

Site: US ARMY, NATICK R&D CENTER
BRUEN ST. HUDSON MA

HIST LUST

Spill ID: C91-0437
Site ID: 0000
Case Closed: YES
LUST: NO
Incident: TANK REMOVAL
Other Incident:
Source: U.S.T.
Other Source:
Petro/Hazardous: PETROLEUM
Virgin/Waste: VIRGIN
Material: #2 FUEL OIL
Other Material:
Enviro Impact: SOIL
Other Env. Impact:
Contaminated Soil:
PCB Ranges: NONE
Reported Qty Spilled: UNKNOWN
CAS # for Haz Waste:
SPL Info. 1st Entered:
SPL Info. Last Entered:

Repo Units Spilled: CUBIC YDS
Act. Qty Spilled: UNKNOWN
Act. Units Spilled: CUBIC YDS
Spill Date:
Spill Time:
Rport Date:
Rport Time: 09:00AM
Notifier: JOHN MANNING OF US ARMY L
Notifier Phone:
First IR Form:
Staff Lead: BRESNAHAN, C
Category:
Days For Case: 0
Report pre by:
Contractor: NOT USED
Referral Divisions: NO

Site: FOREST AVE MARLBORO MA

HMIRS

Incident County: MIDDLESEX

HMIR Incident Reports

Report No: I-1990120452
Report Type: A hazardous material incident
Date of Incident: 1990-12-03
Time of Incident: 1605
Haz Class Code:
Hazardous Class: 5.1
Commodity Short Nm: OXIDIZING LIQUID, CORROS
Commodity Long Nm: OXIDIZING LIQUID, CORROSIVE, N.O.S.
Trade Name: SODIUM PERMANGANATE
ID No: UN3098
Haz Waste Ind: No
Haz Waste EPA No:
HMIS Tox Inhalation?: No
TIH Hazard Zone:
Qty Released: 0.125
Unit of Measure: Liquid - Gallon
What Failed:
What Failed Desc:
How Failed Code: 304
How Failed Desc: Cracked
Failure Cause Code:
Failure Cause Desc:
Ident. Markings:
Cont1 Pkging Type:
Cont1 Const Mat:
Cont1 Head Type:
Cont1 Pkg Capacity: 5
C1 Capacity UOM: LGA
Cont1 Pkg Amt: 0
C1 Pkg Amt UOM:
Cont1 Pkg No: 24
C1 Pkg NO Failed: 1
Cont1 Pkg Mnfr: NOT REPORTED BY CARRIER
Cont1 Pkg Mnfr Dt: 0-00-00 00:00:00
Cont1 Pkg Serial NO:
C1 Pkg Last Test Dt: 0-00-00 00:00:00
C1 Test Const Mat:
C1 Pkg Dsign Pres.: 0
C1 Dsign Press UOM:
C1 Pkg Shell Thick: 0
C1 Shell Thick UOM:
C1 Head Thickness: 0
C1 Head Thick UOM:
C1 Pkg Srvc Pres.: 0
C1 Srvc Press UOM:
C1 Valve/Device Fail?: No
C1 Device Type:
C1 Device Mnfr:
C1 Device Model:
NRC No:

RAM Pkg Category:
RAM Pkg Cert.: FALSE
RAM Pkg Cert. NBR:
RAM Nuclide S:
RAM Transport Index:
RAM UOM:
RAM Activity Rpted: 0
RAM UOM Rpted:
RAM Activity: 0
RAM Activity UOM:
RAM Mat Safety:
Spillage Result: Yes
Fire Result: No
Explosion Result: No
Water Sewer Result: No
Gas Dispersion: No
Environment Damage: No
No Release Result: No
Fire EMS Report: No

Fed DOT Agency Nm:
Fed DOT Report No:
Report Submit Src: Paper
Inc Multiple Rows: No
Inc Non US State:
Mode Transport: Highway
Transport Phase: Unloading
Incident Occrrnce:
Mat Ship Approval?: No
Mat Ship Approv No:
Undecl Hazmat Ship?: No
Packaging Type: Non-Bulk
Packing Group:
Carrier Reporter: XPO PROPERTIES, INC.
CR Street Name: 2855 CAMPUS DR STE 300
CR City: SAN MATEO
CR State: CA
CR Postal Code: 94403-2512
CR Non US State:
CR Fed DOT ID: 708713
CR Hazmat Reg ID:
CR Country: US
Shipper Name: CARUS CORPORATION
Shipper Street Name: 1500 8TH ST
Shipper City: LA SALLE
Shipper State: IL
Shipper Postal: 61301-1978
Shipper Non US St:
Shipper Country: US
Shipper Waybill: PRO 299-873836
Ship Hazmat Reg ID:
Origin City: LA SALLE
Origin State: ILLINOIS
Origin Postal: 61301
Origin Non US St:
Origin Country: US
Destination City: MARLBORO
Destination State: MASSACHUSETTS
Destination Postal: 01752
Destination Non US:
Destination Country: US
Cont2 Package Type:
Cont2 Const Mat:
Cont2 Pkg Capacity: 0
Cont2 Capacity UOM:
Cont2 Pkg Amount: 0
Cont2 Pkg Amt UOM:
Cont2 Pkg No: 0
Cont2 Pkg No Failed: 0

Haz NonHosp Public: 0
Haz NonHosp Old:
Tot Haz Non Hosp Inj:
Total Hazmat Injuries: 1
Evacuation Indicator: No
Public Evacuated: 0
Employees Evac: 0
Total Evacuated: 0
Total Evacuation Hrs: 0
Major Artery Closed: No
Mjr Artery Hrs Closed: 0
Material Involved: No
Estimated Speed: 0
Weather Conditions:
Vehicle Overturn: No
Vehicle Left Roadway: No
Passenger Aircraft: No
Cargo Baggage:
Ship Non Transport: No

Fire EMS Report:
Police Report: No
Police Report No:
In House Cleanup: No
Other Cleanup: No
Damage > 500: Yes
Material Loss: 0
Carrier Damage: 0
Property Damage: 0
Response Cost: 0
Remediation Cost: 2000
Damage Old Form: 0
Total Damages Amt: 2000
Hazmat Fatality: No
Haz Fatal Employees: 0
Haz Fatal Respndrs: 0
Haz Fatal Gen Public: 0
Tot Hazmat Fatalities: 0
Non Hazmat Fatality: No
Non Hazmat Fataals: 0
Hazmat Injury: Yes
Haz Hospital Empl: 0
Haz Hospital Resp: 0
Haz Hosp Gen Public: 0
Haz Hosp Old Form: 0
Total Haz Hosp Inj: 0
Haz Non Hosp Empl: 1
Haz Non Hosp Resp: 0
Description of Events:

Ship Air First Flight: No
Ship Air Subflight: No
Ship Init Transport: No
Ship Phase Transfer: No
Contact Name: J J FOYLE
Contact Title: TERMINAL MANAGER
Contact Business:
Contact Street:
Contact City:
Contact State:
Contact Postal:
Contact Non US St:
Contact Country: US
Inc. Report Prepared:
HMIS Serious Incidnt: No
HMIS Serious Fatality: No
HMIS Serious Injury: No
HMIS Flight Plan: No
HMIS Serious Evacs: No
HMIS Major Artery: No
HMIS Bulk Release: No
HMIS Marine Pollutnt: No
HMIS Radioactive: No
HMIS Gen Pkg Type: DRUM METAL
HMIS Container Code: 17C
HMIS Container Desc: Steel STC* RHA*
HMIS Bulk Incident: No
Undeclared Shipment: No

ONE LEAKING 5 GAL. DRUM WAS DISCOVERED WHILE UNLOADING AT THE SHIPLEY CO., IN MARLBORO, MA. ON 12-03-90 AT APPROXIMATELY 1605 HRS. THE DRUM CONTAINED SODIUM PROMANGANATE 40% AND WAS IN THE MIDDLE ON THE TOP TIER OF A STRETCHED WRAPPED PALLET. APPARENTLY THE METAL WIRE HANDLE HAD BEEN STRUCK DURING LOADING OR UNLOADING PRIOR TO ARRIVING AT THE FARMINGHAM TERMINAL. THE IMPACT BROKE THE SEAL AROUND THE LID AND ALLOWED APPROXIMATELY 1/2 TO 1 PINT OF SODIUM PROMANGANATE 40% TO LEAK OUT DURING TRANSPORT. THE SODIUM PROMANGANATE CONTAMINATED SOME OF THE OTHER DRUMS, STRETCH WRAP AND THE SKID. NO HM LIQUID TOUCHED THE TRAILER FLOOR. ENVIRONMENTAL SPECIALIST FROM SPRINGFIELD, MA. WERE CALLED TO THE SCENE WHERE THEY CLEANED AND DISPOSED OF THE SKID AND STRETCH WRAP. THE REMAINING 5 GAL. DRUMS WERE ALSO CLEANED AND ACCEPTED BY THE CONSIGNEE. THE LEAKING DRUM WAS PLACED IN A PROPER HM CONTAINER BY ENVIRONMENTAL SPECIALISTS AND BROUGHT BACK TO THE TERMINAL. IT HAS BEEN RETURNED TO THE SHIPPER - CARUS CHEMICAL CO. THE DRIVER MARK WEBBER COMPLAINED OF SORE THROAT AND A HEADACHE APPARENTLY FROM INHALING FUMES FROM THE SPILL. HE WAS TREATED AT UNIVERSITY OF MA. MEDICAL CENTER ON 12/4/90. HE RETURNED TO WORK ON 12/5/90 WITH A FULL RELEASE FROM THE DOCTOR.

Recommend Actions Taken:

Site: TOWN OF SUDBURY
 WOODSIDE RD SUDBURY MA 01776-0000

LST

Site No: 3-0016916
Source: UST
Release Type: RAO
Chemical Type: Oil
Category: 72 HR
ROA Class Desc:

Initial Status Dt: 6/15/1999
Official Notifi Dt: 6/15/1998
Current Date: 8/21/1998
ROA Class: A2
Phase:

Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Phase Desc:

Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.

Status Desc:

Document URL: Response Action Outcome
<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0016916>
Location Type: MUNICIPAL

Chemicals Information

Chemical: FUEL OIL #2
Amount: 300
Units: PPMV

Chemical: #2 FUEL OIL
Amount: 294
Units: PPMV

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/15/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/11/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 06/15/1998
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 08/21/1998
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation: NONE

Licensed Site Professional

LSP No: 8959
LSP Name: DELTUFO, ANTHONY M

RAO Detail

Class: A2
Method: 1
GW Category: 3
Soil Category: 1
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Site: MA HIGHWAY DEPT
BOSTON POST RD RTE 20 SUDBURY MA 01776-0000

LST

Site No: 3-0014245
Source: UST
Release Type: RAO
Chemical Type: Oil
Category: 72 HR
ROA Class Desc: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Phase Desc:
Release Type Desc: (Response Action Outcome): A site/release where an RAO Statement was submitted. An RAO Statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated.
Status Desc: Response Action Outcome
Document URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0014245>
Location Type: STATE

Chemicals Information

Chemical: GASOLINE
Amount: 650
Units: PPMV

Response Action

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/18/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 11/18/1996
RAO Class: A2
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.
Activity and Use Limitation: NONE

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 11/18/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 11/18/1996
RAO Class:
RAO Description:
Activity and Use Limitation:

Licensed Site Professional

LSP No: 4058
LSP Name: STONE, ALTON D

RAO Detail

Class: A2
Method: N
GW Category: 1
Soil Category: 3
RAO Description: Remedial work was completed and a level of 'no significant risk' has been achieved. A permanent solution has been achieved. Contamination has not been reduced to background.

Site: MA HIGHWAY DEPT
BOSTON POST RD RTE 20 SUDBURY MA

LUST

RTN:	3-0014245	Phase:	
Compliance Status:	RAO	Location Type(s):	STATE
Compl Status Desc:	Response Action Outcome	Site Name (BWSC):	MA HIGHWAY DEPT
Compliance Date:	11/18/1996	Address (BWSC):	BOSTON POST RD RTE 20
Notification Date:	9/18/1996	Town (BWSC):	SUDBURY
RAO Class:	A2	Zip Code (BWSC):	01776-0000
Chemical Type:	Oil	OFC Town (BWSC):	SUDBURY
Reporting Category:	72 HR	Source(s):	UST
Site Name (EEA Data Portal):	MA HIGHWAY DEPT		
Release Add (EEA Data Portal):	BOSTON POST RD RTE 20		
City/Town (EEA Data Portal):	SUDBURY		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeasonline.eea.state.ma.us/Portal#!/wastesite/3-0014245		

Docs URL: https://eeasonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0014245
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	
Current Status Desc:	Response Action Outcome	RAO Class:	A2
Current Date:	18-Nov-1996	OHM:	Oil
OFC Notification:	18-Sep-1996		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Other Rela:			

Chemical Information

Chemical: GASOLINE
Amount: 650
Units: PPMV

Action Information

Date:	18-Sep-1996	First Name:	
Action:	RLFA	Last Name:	
Action Description:	Site Visit or Office Follow-up		
Status:	FOLOFF		
Status Description:	Follow-up Office Response		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	18-Nov-1996	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	CSRCVD		
Status Description:	Completion Statement Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	18-Sep-1996	First Name:	
Action:	IRA	Last Name:	
Action Description:	Immediate Response Action		
Status:	APORAL		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	18-Nov-1996	First Name:	
Action:	RNF	Last Name:	
Action Description:	Release Notification Form Received		
Status:	REPORT		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	18-Nov-1996	First Name:	
Action:	RAO	Last Name:	
Action Description:	Response Action Outcome -RAO		
Status:	RAORCD		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Date:	18-Sep-1996	First Name:	
Action:	REL	Last Name:	
Action Description:	Release Disposition		
Status:	REPORT		
Status Description:	Reportable Release under MGL 21E		

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 30-Sep-1996
Action: NOR
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Site: TOWN OF SUDBURY
WOODSIDE RD SUDBURY MA

LUST

RTN: 3-0016916
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Compliance Date: 8/21/1998
Notification Date: 6/15/1998
RAO Class: A2
Chemical Type: Oil
Reporting Category: 72 HR
Site Name (EEA Data Portal): TOWN OF SUDBURY
Release Add (EEA Data Portal): WOODSIDE RD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0016916>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0016916>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
Location Type(s): MUNICIPAL
Site Name (BWSC): TOWN OF SUDBURY
Address (BWSC): WOODSIDE RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY
Source(s): UST

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current Status Desc: Response Action Outcome
Current Date: 21-Aug-1998
OFC Notification: 15-Jun-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 72 HR
Phase:
RAO Class: A2
OHM: Oil

Chemical Information

Chemical: FUEL OIL #2
Amount: 300
Units: PPMV

Chemical: #2 FUEL OIL
Amount: 294
Units: PPMV

Action Information

Date: 15-Jun-1998
Action: IRA
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

First Name:
Last Name:

Date: 15-Jun-1998
Action: REL
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E

First Name:
Last Name:

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Date: 21-Aug-1998 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 11-Aug-1998 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 27-Jul-1998 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Site: NO LOCATION AID
FRENCH ROAD SUDBURY MA

LUST

RTN: 3-0030731 **Phase:**
Compliance Status: RAO **Location Type(s):** ROADWAY
Compl Status Desc: Response Action Outcome **Site Name (BWSC):** NO LOCATION AID
Compliance Date: 7/24/2012 **Address (BWSC):** FRENCH ROAD
Notification Date: 3/26/2012 **Town (BWSC):** SUDBURY
RAO Class: A2 **Zip Code (BWSC):** 01776-0000
Chemical Type: Oil **OFC Town (BWSC):** SUDBURY
Reporting Category: TWO HR **Source(s):** 2,150 GAL, SADDLE, TANKS, VEHICLE
Site Name (EEA Data Portal): NO LOCATION AID
Release Add (EEA Data Portal): FRENCH ROAD
City/Town (EEA Data Portal): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0030731>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0030731>
Source File: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current Status Desc: Response Action Outcome **RAO Class:** A2
Current Date: 24-Jul-2012 **OHM:** Oil
OFC Notification: 26-Mar-2012
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Chemical Information

Chemical: DIESEL FUEL
Amount: 150
Units: GAL

Action Information

Date: 28-Mar-2012 **First Name:**

Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORMD
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 30-Mar-2012 **First Name:**
Action: BOL **Last Name:**
Action Description: Bill of Lading
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 23-May-2012 **First Name:**
Action: RNFE **Last Name:**
Action Description: Release Notification
Status: RECPT
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 26-Mar-2012 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORAL
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 13-Apr-2012 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: ISSUED
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 26-Mar-2012 **First Name:**
Action: NOR **Last Name:**
Action Description: Notice of Responsibility
Status: FLDISS
Status Description: Field NOR Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 13-Apr-2012 **First Name:**
Action: BOL **Last Name:**
Action Description: Bill of Lading
Status: SHPFAC
Status Description: Remediation was Shipped to a Facility
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 28-Mar-2012 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FOLOFF
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 26-Mar-2012 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: APORMD
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 25-May-2012 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: PLANWR
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 26-Mar-2012 **First Name:**
Action: REL **Last Name:**
Action Description: Release Disposition
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 24-Jul-2012 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: RAORCD
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 16-Oct-2012 **First Name:**
Action: RAO **Last Name:**
Action Description: Response Action Outcome -RAO
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 25-May-2012 **First Name:**
Action: IRA **Last Name:**
Action Description: Immediate Response Action
Status: TSAUD
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 23-May-2012 **First Name:**
Action: RNF **Last Name:**
Action Description: Release Notification Form Received
Status: REPORT
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 26-Mar-2012 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDD1U
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Date: 27-Mar-2012 **First Name:**
Action: RLFA **Last Name:**
Action Description: Site Visit or Office Follow-up
Status: FLDRUN
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Site: SAND HILL SANITARY LANDFILL
OFF BOSTON POST ROAD ROUTE 20 SUDBURY MA

ODI

Noncompliance Categ Code: 06
Noncompliance Categ Code D: DISEASE
Facility Location: OFF BOSTON POST ROAD ROUTE 20

County Name If Applicable: MIDDLESEX
Coordinates: 42 22 09 071 25 34
Latitude: 42.36916667
Longitude: -71.42611111

Site: HUDSON LIGHT AND POWER
CHERRY ST HUDSON MA 01749

PCB

Site ID:	MAD980671051	Mail Address 1:	CHERRY ST
Receive Date:		Mail Address 2:	
Generator:	Yes	Mail Street No:	
Storer:	No	Mail City:	HUDSON
Transporter:	No	Mail State:	MA
Disposer:	No	Mail Zip:	01749
Research:	No	Mail Country:	US
Smelter:	No	Contact Name:	YAKOV D LEVIN
Cert Title:		Contact Title:	
Cert Date:	1990-02-05T00:00:00.000-05:00	Contact Phone:	508-568-8736
Cert Name:		Contact Phone Ext:	
Location Country:	US	Contact Email:	
State Name:	MASSACHUSETTS	Owner Name:	TOWN OF HUDSON
Region:	01		

Site: INSTRESS INC
KANE INDUSTRIAL DR HUDSON MA 01749

RCRA NON GEN

EPA Handler ID:	MAD049423676
Gen Status Universe:	No Report
Contact Name:	GEORGE SKINNER
Contact Address:	KANE INDUSTRIAL DR , , HUDSON , MA, 01749 , US
Contact Phone No and Ext:	617-924-5910
Contact Email:	
Contact Country:	US
County Name:	MIDDLESEX
EPA Region:	01
Land Type:	Private
Receive Date:	19820318

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:	
Violation Short Description:	Generators - General
Violation Type:	262.A
Violation Determined Date:	19861202
Scheduled Compliance Date:	19870102
Return to Compliance:	Unverifiable
Actual Return to Compl:	19880310
Violation Responsible Agency:	State

Enforcement Details

Enforcement Type:	120
Enforcement Type Description:	WRITTEN INFORMAL
Enforcement Action Date:	19861209
Enf Disposition Status:	
Disposition Status Date:	
Enforcement Lead Agency:	State
Proposed Penalty Amount:	
Final Amount:	
Paid Amount:	

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19831208
Scheduled Compliance Date: 19831226
Return to Compliance: Observed
Actual Return to Compl: 19840131
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19831212
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 19880310
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19861202
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19880310
Evaluation Agency: State

Evaluation Start Date: 19840131
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19831208
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19840131
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19820318
Handler Name: INSTRESS INC
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:	
Type:	Private	Street 1:	KANE INDUSTRIAL DR
Name:	INSTRESS INC	Street 2:	
Date Became Current:	19900301	City:	HUDSON
Date Ended Current:	19910603	State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	01749

Site: DATA CARD DATATROL
BRENT DR HUDSON MA 01749

RCRA NON GEN

EPA Handler ID: MAD049442510
Gen Status Universe: No Report
Contact Name: LEONARD FULLER
Contact Address: BRENT DR , , HUDSON , MA, 01749 , US
Contact Phone No and Ext: 508-568-1411
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19821215

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2020.

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19850529
Scheduled Compliance Date: 19850629
Return to Compliance: Observed
Actual Return to Compl: 19850617
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19850529
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:

Paid Amount:

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19850520
Scheduled Compliance Date:
Return to Compliance: Observed
Actual Return to Compl: 19850614
Violation Responsible Agency: State

Violation Details

Citation:
Violation Short Description: Generators - General
Violation Type: 262.A
Violation Determined Date: 19850520
Scheduled Compliance Date: 19850614
Return to Compliance: Observed
Actual Return to Compl: 19850614
Violation Responsible Agency: State

Enforcement Details

Enforcement Type: 120
Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19850521
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency: State
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 19920602
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19850614
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19850529
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description: Generators - General
Return to Compliance Date: 19850617
Evaluation Agency: State

Evaluation Start Date: 19850520
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description: Generators - General
Return to Compliance Date: 19850614
Evaluation Agency: State

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19821215
Handler Name: DATA CARD DATATROL
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Waste Code Details

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: F001
Waste Code Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind: Current Owner	Street No:	
Type: Private	Street 1:	BRENT DR
Name: DATATROL INC	Street 2:	
Date Became Current: 20041016	City:	HUDSON
Date Ended Current:	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Owner/Operator Ind: Current Operator	Street No:	
Type: Private	Street 1:	BRENT DR
Name: DATA CARD DATATROL	Street 2:	
Date Became Current: 19900301	City:	HUDSON
Date Ended Current: 19970829	State:	MA
Phone:	Country:	US
Source Type: Notification	Zip Code:	01749

Site: NEW ENGLAND TELE
BOSTON POST RD SUDBURY MA 01776

RCRA NON GEN

EPA Handler ID: MAD980522700
Gen Status Universe: No Report

Contact Name: ALEX MACARTHUR
Contact Address: 99 HIGH ST , , BOSTON , MA, 02110 , US
Contact Phone No and Ext: 617-743-5904
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type: Private
Receive Date: 19810706

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19810706
Handler Name: NEW ENGLAND TELE
Source Type: Notification
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	Street No:	
Type:	Private	Street 1:	99 HIGH ST
Name:	NEW ENGLAND TELE	Street 2:	
Date Became Current:	20041016	City:	BOSTON
Date Ended Current:		State:	MA
Phone:		Country:	US
Source Type:	Notification	Zip Code:	02110

Site: HUDSON LIGHT AND POWER DEPARTMENT
FOREST AVENUE HUDSON MA 01749-0000

RCRA NON GEN

EPA Handler ID: MAD000881870
Gen Status Universe: No Report
Contact Name: YAKOV D LEVIN
Contact Address: US
Contact Phone No and Ext: 508-568-8736
Contact Email:
Contact Country: US
County Name: MIDDLESEX
EPA Region: 01
Land Type:
Receive Date: 19900301

Violation/Evaluation Summary

Note: NO RECORDS: As of May 2020, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:
Mixed Waste Generator:
Transporter Activity:
Transfer Facility:
Onsite Burner Exemption:
Furnace Exemption:
Underground Injection Activity:
Commercial TSD: No
Used Oil Transporter:
Used Oil Transfer Facility:
Used Oil Processor:
Used Oil Refiner:
Used Oil Burner:
Used Oil Market Burner:
Used Oil Spec Marketer:

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19900301
Handler Name: HUDSON LIGHT AND POWER DEPARTMENT
Source Type: Annual/Biennial Report
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Site: MA HIGHWAY DEPT
BOSTON POST RD RTE 20 SUDBURY MA

RELEASE

RTN: 3-0014245
Compliance Date: 11/18/1996
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 9/18/1996
Source: UST
Reporting Category: 72 HR
Site (EEA Data): MA HIGHWAY DEPT
Rel Add(EEA Data): BOSTON POST RD RTE 20
Town (EEA Data): SUDBURY
Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: STATE
Site Name (BWSC): MA HIGHWAY DEPT
Address (BWSC): BOSTON POST RD RTE 20
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0014245>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0014245>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: GASOLINE
Amount: 650
Units: PPMV

Action Information (BWSC)

Status: REPORT
Date: 18-Nov-1996
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
F Name:
L Name:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 30-Sep-1996 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 18-Sep-1996 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 18-Nov-1996 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 18-Sep-1996 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 18-Sep-1996 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 18-Nov-1996 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 72 HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 18-Nov-1996 **OHM:** Oil
OFC Notification: 18-Sep-1996
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: TOWN OF SUDBURY
WOODSIDE RD SUDBURY MA

RELEASE

RTN: 3-0016916 **Phase:**
Compliance Date: 8/21/1998 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** MUNICIPAL
Notification Date: 6/15/1998 **Site Name (BWSC):** TOWN OF SUDBURY

Source:	UST	Address (BWSC):	WOODSIDE RD
Reporting Category:	72 HR	Town (BWSC):	SUDBURY
Site (EEA Data):	TOWN OF SUDBURY	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	WOODSIDE RD	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
RAO Class Desc:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0016916		
Info URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0016916		
Docs URL:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		
Report Source:			

Chemical Information (BWSC)

Chemical: FUEL OIL #2
Amount: 300
Units: PPMV

Chemical: #2 FUEL OIL
Amount: 294
Units: PPMV

Action Information (BWSC)

Status:	APORAL	F Name:	
Date:	15-Jun-1998	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	RAORCD	F Name:	
Date:	21-Aug-1998	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	REPORT	F Name:	
Date:	15-Jun-1998	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	ISSUED	F Name:	
Date:	27-Jul-1998	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	REPORT	F Name:	
Date:	11-Aug-1998	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Release (BWSC) Detail

Prim ID:		Category:	72 HR
Current Status:	RAO	Phase:	

Current St Desc: Response Action Outcome
Current Date: 21-Aug-1998
OFC Notification: 15-Jun-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

RAO Class: A2
OHM: Oil

Site: CHESTNUT STREET WELL
CHESTNUT STREET HUDSON MA

RELEASE

RTN: 2-0020907
Compliance Date: 9/7/2017
Compliance Status: TIER1D
Compl Status Desc: Tier 1D
Notification Date: 8/31/2016
Source: UNKNOWN
Reporting Category: 72 HR
Site (EEA Data): CHESTNUT STREET WELL
Rel Add(EEA Data): CHESTNUT STREET
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0020907>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0020907>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class:
Chemical Type:
Location Type: PUBLIC WAT
Site Name (BWSC): CHESTNUT STREET WELL
Address (BWSC): CHESTNUT STREET
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Action Information (BWSC)

Status: RFI
Date: 31-May-2019
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RFI
Date: 01-Oct-2019
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RFI
Date: 07-Jun-2019
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RFI
Date: 10-Jun-2019
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RFI
Date: 30-Jul-2019
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: RFI **F Name:**
Date: 13-Aug-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: RFI **F Name:**
Date: 29-May-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: SIGACC **F Name:**
Date: 30-Aug-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: FOLFLD **F Name:**
Date: 17-Sep-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Status: FOLFLD **F Name:**
Date: 12-Nov-2019 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

Status: RFI **F Name:**
Date: 25-Jun-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: RFI **F Name:**
Date: 28-Jun-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: RFI **F Name:**
Date: 08-Oct-2019 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 31-Aug-2016 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID:
Current Status: TIER1D
Current St Desc: Tier 1D
Current Date: 07-Sep-2017
OFC Notification: 31-Aug-2016
Phase Desc:
RAO Class Desc:
Other Rela:

Category: 72 HR
Phase:
RAO Class:
OHM:

Site: NO LOCATION AID
FRENCH ROAD SUDBURY MA

RELEASE

RTN: 3-0030731
Compliance Date: 7/24/2012
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/26/2012
Source: 2,150 GAL, SADDLE, TANKS, VEHICLE
Reporting Category: TWO HR
Site (EEA Data): NO LOCATION AID
Rel Add(EEA Data): FRENCH ROAD
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0030731>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0030731>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: ROADWAY
Site Name (BWSC): NO LOCATION AID
Address (BWSC): FRENCH ROAD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 150
Units: GAL

Action Information (BWSC)

Status: APORAL
Date: 26-Mar-2012
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: APORMD
Date: 28-Mar-2012
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ISSUED
Date: 13-Apr-2012
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: APORMD
Date: 26-Mar-2012
Action: IRA
Action Description: Immediate Response Action

F Name:
L Name:

Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR
Date: 25-May-2012
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FOLOFF
Date: 28-Mar-2012
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDD1U
Date: 26-Mar-2012
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RECPT
Date: 23-May-2012
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RECPT
Date: 30-Mar-2012
Action: BOL
Action Description: Bill of Lading
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDISS
Date: 26-Mar-2012
Action: NOR
Action Description: Notice of Responsibility
Status Description: Field NOR Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 16-Oct-2012
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 26-Mar-2012
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 25-May-2012
Action: IRA

F Name:
L Name:

Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 24-Jul-2012 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 23-May-2012 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: SHPFAC **F Name:**
Date: 13-Apr-2012 **L Name:**
Action: BOL
Action Description: Bill of Lading
Status Description: Remediation was Shipped to a Facility
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRUN **F Name:**
Date: 27-Mar-2012 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** TWO HR
Current St Desc: Response Action Outcome **Phase:**
Current Date: 24-Jul-2012 **RAO Class:** A2
OFC Notification: 26-Mar-2012 **OHM:** Oil
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: ADJACENT TO #32 EMERSON WAY
EMERSON WAY SUDBURY MA

RELEASE

RTN: 3-0028852 **Phase:**
Compliance Date: 11/23/2009 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:**
Compl Status Desc: Response Action Outcome **Location Type:** MUNICIPAL, PRIVPROP, ROADWAY, UTILEASE
Notification Date: 10/31/2009 **Site Name (BWSC):** ADJACENT TO #32 EMERSON WAY
Source: TRANSFORM **Address (BWSC):** EMERSON WAY
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): ADJACENT TO #32 EMERSON WAY **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): EMERSON WAY **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0028852>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0028852>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: MINERAL OIL DIELECTRIC FLUID
Amount: 26
Units: GAL

Chemical: MINERAL OIL DIELECTRIC FLUID
Amount: 30
Units: GAL

Action Information (BWSC)

Status: ISSUED
Date: 23-Nov-2009
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 02-Dec-2009
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RECPT
Date: 23-Nov-2009
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 23-Nov-2009
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 31-Oct-2009
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 31-Oct-2009
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 23-Nov-2009
Action: RNF

F Name:
L Name:

Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 23-Nov-2009 **OHM:**
OFC Notification: 31-Oct-2009
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

Site: MASS HIGHWAY DEPT
MAIN STREET ROUTE 62 HUDSON MA

RELEASE

RTN: 2-0016496 **Phase:**
Compliance Date: 11/16/2007 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 12/8/2006 **Site Name (BWSC):** MASS HIGHWAY DEPT
Source: **Address (BWSC):** MAIN STREET ROUTE 62
Reporting Category: 120 DY **Town (BWSC):** HUDSON
Site (EEA Data): MASS HIGHWAY DEPT **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): MAIN STREET ROUTE 62 **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016496>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016496>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: BENZO(B)FLUORANTHENE
Amount: 30
Units: MG/KG

Chemical: INDENO(1,2,3-CD)PYRENE
Amount: 20
Units: MG/KG

Chemical: ARSENIC
Amount: 38
Units: MG/KG

Chemical: BENZO(A)ANTHRACENE
Amount: 24
Units: MG/KG

Chemical: BENZO(A)PYRENE
Amount: 23
Units: MG/KG

Chemical: CHRYSENE
Amount: 29
Units: MG/KG

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 12-Mar-2007 **L Name:**

Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR
Date: 08-Dec-2006
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 08-Dec-2006
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: CSRCVD
Date: 16-Oct-2007
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RAORCD
Date: 16-Nov-2007
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 16-May-2007
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 22-Dec-2006
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: NAFNVD
Date: 13-Jul-2007
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 09-Nov-2007
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: SNAUDI
F Name:

Date: 13-Jul-2007 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level II - Audit Inspection
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 17-Apr-2007 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 08-Dec-2006 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRAN **F Name:**
Date: 23-May-2007 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 16-Nov-2007 **OHM:** Hazardous Material
OFC Notification: 08-Dec-2006
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: INTERSECTION
BOSTON POST RD SUDBURY MA

RELEASE

RTN: 3-0027918 **Phase:**
Compliance Date: 8/28/2008 **RAO Class:**
Compliance Status: URAM **Chemical Type:** Hazardous Material
Compl Status Desc: Utility-abatement Measure **Location Type:** RIGHTOFWAY, ROADWAY
Notification Date: 8/21/2008 **Site Name (BWSC):** INTERSECTION
Source: UNKNOWN **Address (BWSC):** BOSTON POST RD
Reporting Category: 120 DY **Town (BWSC):** SUDBURY
Site (EEA Data): INTERSECTION **Zip Code (BWSC):** 01776-0000
Rel Add(EEA Data): BOSTON POST RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0027918>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0027918>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: NAPHTHALENE
Amount: 4
Units: MG/KG

Action Information (BWSC)

Status: URAMLR **F Name:**
Date: 26-Aug-2008 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Letter of Responsibility URAM or Municipality
RAO Class:
RAO Class Desc:

Status: URAMNT **F Name:**
Date: 28-Aug-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Notification of URAM Received
RAO Class:
RAO Class Desc:

Status: INTENT **F Name:**
Date: 21-Aug-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Notice of Intent to Conduct a URAM
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 21-Aug-2008 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 28-Aug-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: TSAUD **F Name:**
Date: 15-Jan-2009 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class:
RAO Class Desc:

Status: STRCVD **F Name:**
Date: 31-Dec-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Status or Interim Report Received
RAO Class:
RAO Class Desc:

Status: CSRCVD **F Name:**
Date: 08-Jun-2009 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Completion Statement Received
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: URAM **Phase:**

Current St Desc: Utility-abatement Measure
Current Date: 28-Aug-2008
OFC Notification: 21-Aug-2008
Phase Desc:
RAO Class Desc:
Other Rela:

RAO Class:
OHM: Hazardous Material

Site: HUDSON MUNICIPAL PARKING LOT
SOUTH ST ADJACENT TO 25 HUDSON MA

RELEASE

RTN: 2-0017073
Compliance Date: 5/1/2009
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 5/5/2008
Source: UNKNOWN
Reporting Category: 120 DY
Site (EEA Data): HUDSON MUNICIPAL PARKING LOT
Rel Add(EEA Data): SOUTH ST ADJACENT TO 25
Town (EEA Data): HUDSON

Phase:
RAO Class: A3
Chemical Type: Oil
Location Type: MUNICIPAL, PRIVPROP
Site Name (BWSC): HUDSON MUNICIPAL PARKING LOT
Address (BWSC): SOUTH ST ADJACENT TO 25
Town (BWSC): HUDSON
Zip Code (BWSC):
OFC Town (BWSC): HUDSON

Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0017073>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0017073>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Status: TSAUD
Date: 21-May-2009
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: AFUCS
Date: 29-May-2014
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: REPORT
Date: 05-May-2008
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

F Name:
L Name:

Status: REPORT
Date: 14-May-2008
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A3

F Name:
L Name:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: FLDRUN **F Name:**
Date: 21-Nov-2013 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: RECPT **F Name:**
Date: 16-Apr-2009 **L Name:**
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: SNAUDI **F Name:**
Date: 19-Feb-2014 **L Name:**
Action: AUL
Action Description: Activity and Use Limitation
Status Description: Level II - Audit Inspection
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: INTENT **F Name:**
Date: 05-May-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Notice of Intent to Conduct a URAM
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: ISSUED **F Name:**
Date: 18-Sep-2008 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: FOLOFF **F Name:**
Date: 19-Feb-2014 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: RECPT **F Name:**
Date: 06-Feb-2009 **L Name:**
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: CSRCVD **F Name:**
Date: 01-May-2009 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Completion Statement Received

RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: SNAUDI **F Name:**
Date: 29-Jun-2009 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Level II - Audit Inspection
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: URAMNT **F Name:**
Date: 14-May-2008 **L Name:**
Action: URAM
Action Description: Utility-related Abatement Measure
Status Description: Notification of URAM Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: NAFNON **F Name:**
Date: 19-Feb-2014 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: NAFNON **F Name:**
Date: 29-Jun-2009 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: ALSENT **F Name:**
Date: 11-Mar-2009 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: RAORCD **F Name:**
Date: 01-May-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: REPORT **F Name:**
Date: 14-May-2008 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: TSAUD **F Name:**
Date: 20-Nov-2013 **L Name:**
Action: AUL
Action Description: Activity and Use Limitation

Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: FEEREC **F Name:**
Date: 01-May-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Status: TSAUD **F Name:**
Date: 21-May-2009 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A3
Current Date: 01-May-2009 **OHM:** Oil
OFC Notification: 05-May-2008
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Other Rela:

Site: **MHD STAGING AREA - SUDBURY RIV BRIDGE**
BOSTON POST RD WAYLAND MA

RELEASE

RTN: 3-0027875 **Phase:**
Compliance Date: 10/3/2008 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** OPENSACE, RIGHTOFWAY, STATE
Notification Date: 7/30/2008 **Site Name (BWSC):** MHD STAGING AREA - SUDBURY RIV BRIDGE
Source: DRUMS, UNKNOWN **Address (BWSC):** BOSTON POST RD
Reporting Category: TWO HR **Town (BWSC):** WAYLAND
Site (EEA Data): MHD STAGING AREA - SUDBURY RIV BRIDGE **Zip Code (BWSC):** 01778-0000
Rel Add(EEA Data): BOSTON POST RD **OFC Town (BWSC):** WAYLAND
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0027875>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0027875>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM/COAL TAR
Amount: 55
Units: GAL

Chemical: PETROLEUM BASED OIL
Amount: 10
Units: GAL

Chemical: UNKNOWN OHM
Amount: 55

Units: GAL

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 22-Aug-2008 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 05-Aug-2008 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 30-Jul-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 30-Jul-2008 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 13-Aug-2008 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APWRIT **F Name:**
Date: 26-Aug-2008 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Approval of Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 03-Oct-2008 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 08-Aug-2008 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF **F Name:**
Date: 12-Aug-2008 **L Name:**

Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR
Date: 21-Aug-2008
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDD1A
Date: 30-Jul-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Initial Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDRAN
Date: 05-Aug-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDRAN
Date: 14-Aug-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FOLOFF
Date: 26-Aug-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RECPT
Date: 13-Aug-2008
Action: RNFE
Action Description: Release Notification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDRUN
Date: 15-Aug-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: APORMD
Date: 12-Aug-2008
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDISS
F Name:

Date: 30-Jul-2008 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Field NOR Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 03-Oct-2008 **OHM:** Oil
OFC Notification: 30-Jul-2008
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: NO LOCATION AID
OLD LANCASTER RD SUDBURY MA

RELEASE

RTN: 3-0011165 **Phase:**
Compliance Date: 9/7/1994 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** COMMERCIAL
Notification Date: 6/19/1994 **Site Name (BWSC):** NO LOCATION AID
Source: TRANSFORM **Address (BWSC):** OLD LANCASTER RD
Reporting Category: TWO HR **Town (BWSC):** SUDBURY
Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):** 01776
Rel Add(EEA Data): OLD LANCASTER RD **OFC Town (BWSC):** SUDBURY
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0011165>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0011165>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: OIL
Amount: 25
Units: GAL

Chemical: TRANSFORMER OIL
Amount: 25
Units: GAL

Action Information (BWSC)

Status: APORAL **F Name:**
Date: 29-Jun-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 23-Jun-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 07-Sep-1994 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 19-Jun-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 19-Jun-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: FOLOFF **F Name:**
Date: 29-Jun-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 07-Sep-1994 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 19-Jun-1994 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 12-Jul-1994 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID:
Current Status: RAO **Category:** TWO HR
Current St Desc: Response Action Outcome **Phase:**
Current Date: 07-Sep-1994 **RAO Class:** A1
OHM: Oil

OFC Notification: 19-Jun-1994
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Site: RIVERSIDE FARM ESTATES
OFF ZINA RD HUDSON MA

RELEASE

RTN:	2-0016023	Phase:	
Compliance Date:	2/13/2007	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil and Hazardous Material
Compl Status Desc:	Response Action Outcome	Location Type:	
Notification Date:	12/5/2005	Site Name (BWSC):	RIVERSIDE FARM ESTATES
Source:		Address (BWSC):	OFF ZINA RD
Reporting Category:	120 DY	Town (BWSC):	HUDSON
Site (EEA Data):	RIVERSIDE FARM ESTATES	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	OFF ZINA RD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0016023		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0016023		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: DIELDRIN
Amount: 0.14
Units: MG/KG

Chemical: DISSOLVED LEAD
Amount: 179
Units: UG/L

Chemical: TPH
Amount: 56000
Units: MG/KG

Chemical: SVOS'S
Amount: 7
Units: MG/KG

Chemical: 4-ISOPROPYLTOLUENE
Amount: 2300
Units: MG/KG

Chemical: PCB
Amount: 6.8
Units: MG/KG

Action Information (BWSC)

Status:	CSRCVD	F Name:	
Date:	13-Feb-2007	L Name:	
Action:	RAM		
Action Description:	Release Abatement Measure		
Status Description:	Completion Statement Received		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	RAORCD	F Name:	
Date:	13-Feb-2007	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 09-Mar-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 05-Dec-2005 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NON **F Name:**
Date: 16-Mar-2006 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 20-Jan-2006 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 13-Feb-2007 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FLDRAN **F Name:**
Date: 08-Mar-2006 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Announced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 14-Jul-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 01-Aug-2006 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 15-Dec-2005 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD
Date: 21-Feb-2007
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PLANWR
Date: 05-Dec-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 20-Mar-2006
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 05-Dec-2005
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 07-Aug-2006
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ALSENT
Date: 18-Oct-2006
Action: NOR
Action Description: Notice of Responsibility
Status Description: Anniversary Letter Sent
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDRUN
Date: 03-Mar-2006
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FOLOFF
Date: 14-Dec-2005
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PLANWR
Date: 08-Mar-2006
Action: RAM
Action Description: Release Abatement Measure

F Name:
L Name:

Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF
Date: 01-Apr-2008
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 13-Feb-2007
OFC Notification: 05-Dec-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 120 DY
Phase:
RAO Class: A2
OHM: Oil and Hazardous Material

Site: BEHIND 4 LAKESHORE DR
DUDLEY POND WAYLAND MA

RELEASE

RTN: 3-0011146
Compliance Date: 10/26/1994
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 6/15/1994
Source: DRUMS
Reporting Category: TWO HR
Site (EEA Data): BEHIND 4 LAKESHORE DR
Rel Add(EEA Data): DUDLEY POND
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0011146>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0011146>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class:
Chemical Type: Hazardous Material
Location Type: RESIDENTIAL, WATERBODY
Site Name (BWSC): BEHIND 4 LAKESHORE DR
Address (BWSC): DUDLEY POND
Town (BWSC): WAYLAND
Zip Code (BWSC): 01778
OFC Town (BWSC): WAYLAND

Chemical Information (BWSC)

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount: 611
Units: PPMV

Action Information (BWSC)

Status: RAORCD
Date: 26-Oct-1994
Action: RAO-D
Action Description: RAO - DEP Lead
Status Description: RAO Statement Received (retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: FOLFLD
Date: 15-Jun-1994
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up or Other Field Response
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: WORKST
F Name:

Date: 15-Jun-1994 **L Name:**
Action: IRA-D
Action Description: Immediate Response Action - DEP
Status Description: Work Started
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 15-Jun-1994 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Status: FOLOFF **F Name:**
Date: 23-Jun-1994 **L Name:**
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class:
RAO Class Desc:

Status: APORAL **F Name:**
Date: 15-Jun-1994 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class:
RAO Class Desc:

Status: REPORT **F Name:**
Date: 20-Apr-1995 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class:
RAO Class Desc:

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:**
Current Date: 26-Oct-1994 **OHM:** Hazardous Material
OFC Notification: 15-Jun-1994
Phase Desc:
RAO Class Desc:
Other Rela:

Site: SEPTAGE FACILITY
BOSTON POST RD WAYLAND MA

RELEASE

RTN: 3-0001724 **Phase:**
Compliance Date: 7/23/1993 **RAO Class:**
Compliance Status: DEPND5 **Chemical Type:**
Compl Status Desc: DEP Not a Disposal Site **Location Type:**
Notification Date: 4/15/1987 **Site Name (BWSC):** SEPTAGE FACILITY
Source: **Address (BWSC):** BOSTON POST RD
Reporting Category: NONE **Town (BWSC):** WAYLAND
Site (EEA Data): SEPTAGE FACILITY **Zip Code (BWSC):** 01778
Rel Add(EEA Data): BOSTON POST RD **OFC Town (BWSC):** WAYLAND
Town (EEA Data): WAYLAND
Phase Desc:
RAO Class Desc:
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0001724>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0001724>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: UNKNOWN
Amount:
Units:

Action Information (BWSC)

Status: TCTRNS
Date: 15-Apr-1987
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class:
RAO Class Desc:

F Name:
L Name:

Status: DEPND5
Date: 23-Jul-1993
Action: TREGS
Action Description:
Status Description: Not a Disposal Site - DEP
RAO Class:
RAO Class Desc:

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: DEPND5
Current St Desc: DEP Not a Disposal Site
Current Date: 23-Jul-1993
OFC Notification: 15-Apr-1987
Phase Desc:
RAO Class Desc:
Other Rela:

Category: NONE
Phase:
RAO Class:
OHM:

Site: MASS HGWY DEPOT NEAR OLD COUNTY RD
BOSTON POST RD RTE 20 SUDBURY MA

RELEASE

RTN: 3-0018306
Compliance Date: 5/5/2000
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 5/5/1999

Source:
Reporting Category: 120 DY
Site (EEA Data): MASS HGWY DEPOT NEAR OLD COUNTY RD
Rel Add(EEA Data): BOSTON POST RD RTE 20
Town (EEA Data): SUDBURY

Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0018306>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0018306>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Hazardous Material
Location Type:
Site Name (BWSC): MASS HGWY DEPOT NEAR OLD COUNTY RD
Address (BWSC): BOSTON POST RD RTE 20
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Chemical Information (BWSC)

Chemical: BENZO[B]FLUORANTHENE
Amount: 1.8
Units: PPM

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 05-May-1999 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 13-Jul-1999 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 05-May-2000 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 05-May-1999 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 22-Feb-2000 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 05-May-2000 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 05-Oct-1999 **L Name:**
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** 120 DY
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 05-May-2000 **OHM:** Hazardous Material
OFC Notification: 05-May-1999
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: ASSABET RIVER RAIL TRAIL
MAKIN AND COX ST (STATION 61 A MARLBOROUGH MA

RELEASE

RTN: 2-0015037
Compliance Date: 10/7/2004
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 12/9/2003
Source: UNKNOWN
Reporting Category: TWO HR
Site (EEA Data): ASSABET RIVER RAIL TRAIL
Rel Add(EEA Data): MAKIN AND COX ST (STATION 61 A
Town (EEA Data): MARLBOROUGH

Phase:
RAO Class: A1
Chemical Type: Hazardous Material
Location Type:
Site Name (BWSC): ASSABET RIVER RAIL TRAIL
Address (BWSC): MAKIN AND COX ST (STATION 61 A
MARLBOROUGH
Town (BWSC): MARLBOROUGH
Zip Code (BWSC): 01752-0000
OFC Town (BWSC): MARLBOROUGH

RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015037>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtm=2-0015037>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: ARSENIC
Amount: 97.7
Units: PPM

Action Information (BWSC)

Status: ISSUED
Date: 23-Jan-2004
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 09-Dec-2003
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 10-Feb-2004
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: PLANWR
Date: 10-Feb-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 14-Apr-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release

F Name:
L Name:

has been eliminated.

Status: FEEREC
Date: 12-Oct-2004
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: RAORCD
Date: 07-Oct-2004
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 19-Oct-2004
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 19-May-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: TSAUD
Date: 19-Oct-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Level I - Technical Screen Audit
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 09-Dec-2003
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: CSRCVD
Date: 07-Oct-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Completion Statement Received
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: STRCVD
Date: 07-Apr-2004
Action: IRA
Action Description: Immediate Response Action
Status Description: Status or Interim Report Received
RAO Class: A1

F Name:
L Name:

RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 07-Oct-2004
OFC Notification: 09-Dec-2003
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A1
OHM: Hazardous Material

Site: HUDSON POWER & LIGHT
CAUSEWAY ST HUDSON MA

RELEASE

RTN: 2-0011992
Compliance Date: 1/13/1998
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 11/22/1997
Source: TRANSFORM
Reporting Category: TWO HR
Site (EEA Data): HUDSON POWER & LIGHT
Rel Add(EEA Data): CAUSEWAY ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011992>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011992>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A1
Chemical Type: Oil
Location Type: ROADWAY
Site Name (BWSC): HUDSON POWER & LIGHT
Address (BWSC): CAUSEWAY ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: TRANSFORMER OIL
Amount: 21.4
Units: GAL

Chemical: MINERAL OIL
Amount: 21.4
Units: GAL

Action Information (BWSC)

Status: RAORCD
Date: 13-Jan-1998
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 22-Nov-1997
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: FOLOFF
Date: 22-Nov-1997
F Name:
L Name:

Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED
Date: 12-Dec-1997
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 22-Nov-1997
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 13-Jan-1998
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 13-Jan-1998
OFC Notification: 22-Nov-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Category: TWO HR
Phase:
RAO Class: A1
OHM: Oil

Other Rela:

Site: NO LOCATION AID
STONE RD SUDBURY MA

RELEASE

RTN: 3-0015866
Compliance Date: 2/20/1998
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 12/26/1997
Source: PIPE, VEHICLE
Reporting Category: TWO HR
Site (EEA Data): NO LOCATION AID
Rel Add(EEA Data): STONE RD
Town (EEA Data): SUDBURY
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015866>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015866>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil
Location Type: ROADWAY
Site Name (BWSC): NO LOCATION AID
Address (BWSC): STONE RD
Town (BWSC): SUDBURY
Zip Code (BWSC): 01776-0000
OFC Town (BWSC): SUDBURY

Chemical Information (BWSC)

Chemical: HYDRAULIC OIL

Amount: 21
Units: GAL

Chemical: HYDRAULIC FLUID
Amount: 40
Units: GAL

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 20-Feb-1998 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 22-Jan-1998 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL **F Name:**
Date: 26-Dec-1997 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 26-Dec-1997 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 20-Feb-1998 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 20-Feb-1998 **OHM:** Oil
OFC Notification: 26-Dec-1997
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: CONCORD ST
BOSTON POST RD (RTE 20) SUDBURY MA

RELEASE

RTN: 3-0015581 **Phase:**
Compliance Date: 9/29/1997 **RAO Class:** B1
Compliance Status: RAO **Chemical Type:** Hazardous Material
Compl Status Desc: Response Action Outcome **Location Type:**
Notification Date: 9/29/1997 **Site Name (BWSC):** CONCORD ST

Source:		Address (BWSC):	BOSTON POST RD (RTE 20)
Reporting Category:	120 DY	Town (BWSC):	SUDBURY
Site (EEA Data):	CONCORD ST	Zip Code (BWSC):	01776-0000
Rel Add(EEA Data):	BOSTON POST RD (RTE 20)	OFC Town (BWSC):	SUDBURY
Town (EEA Data):	SUDBURY		
Phase Desc:			
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/3-0015581		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=3-0015581		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: TRANS-1,2-DICHLOROETHENE
Amount: 429
Units: PPB

Chemical: VINYL CHLORIDE
Amount: 29.9
Units: PPB

Chemical: TRICHLOROETHANE
Amount: 235
Units: PPB

Chemical: TETRACHLOROETHANE
Amount: 392
Units: PPB

Action Information (BWSC)

Status:	REPORT	F Name:	
Date:	29-Sep-1997	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	REPORT	F Name:	
Date:	29-Sep-1997	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	TSAUD	F Name:	
Date:	15-Jan-2010	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Status:	RAORCD	F Name:	
Date:	29-Sep-1997	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	B1		
RAO Class Desc:	Remedial actions have not been conducted because a level of No Significant Risk exists.		

Release (BWSC) Detail

Prim ID:		Category:	120 DY
Current Status:	RAO	Phase:	

Current St Desc: Response Action Outcome
Current Date: 29-Sep-1997
OFC Notification: 29-Sep-1997
Phase Desc:
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists.
Other Rela:

RAO Class: B1
OHM: Hazardous Material

Site: NO LOCATION AID
LOT 215 COOLIDGE ST HUDSON MA

RELEASE

RTN: 2-0015912
Compliance Date: 12/6/2005
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 9/23/2005
Source:
Reporting Category: 120 DY
Site (EEA Data): NO LOCATION AID
Rel Add(EEA Data): LOT 215 COOLIDGE ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0015912>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0015912>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A2
Chemical Type: Oil and Hazardous Material
Location Type:
Site Name (BWSC): NO LOCATION AID
Address (BWSC): LOT 215 COOLIDGE ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: #2 FUEL OIL
Amount: 12000
Units: MG/KG

Chemical: NAPHTHALENE
Amount: 24
Units: MG/KG

Action Information (BWSC)

Status: FEEREC
Date: 26-Sep-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PLANWR
Date: 23-Sep-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PLANMD
Date: 29-Sep-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Modified Revised or Updated Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 03-Oct-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Level I - Technical Screen Audit

F Name:
L Name:

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED
Date: 10-Nov-2005
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 13-Jan-2006
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RAORCD
Date: 06-Dec-2005
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 23-Sep-2005
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: CSRCVD
Date: 06-Dec-2005
Action: RAM
Action Description: Release Abatement Measure
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REPORT
Date: 23-Sep-2005
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 06-Dec-2005
OFC Notification: 23-Sep-2005
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: 120 DY
Phase:
RAO Class: A2
OHM: Oil and Hazardous Material

Site: BANKS OF ASSABET RIVER
WHEELER RD HUDSON MA

RELEASE

RTN: 2-0010972
Compliance Date: 12/22/1995
Compliance Status: RAO
Compl Status Desc: Response Action Outcome

Phase:
RAO Class: A1
Chemical Type: Oil
Location Type: WATERBODY

Notification Date:	10/25/1995	Site Name (BWSC):	BANKS OF ASSABET RIVER
Source:	DRUMS	Address (BWSC):	WHEELER RD
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	BANKS OF ASSABET RIVER	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	WHEELER RD	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0010972		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0010972		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: WASTE OIL
Amount:
Units:

Action Information (BWSC)

Status:	REPORT	F Name:	
Date:	25-Oct-1995	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLOFF	F Name:	
Date:	25-Oct-1995	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	RAORCD	F Name:	
Date:	22-Dec-1995	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	FOLOFF	F Name:	
Date:	27-Oct-1995	L Name:	
Action:	RLFA		
Action Description:	Site Visit or Office Follow-up		
Status Description:	Follow-up Office Response		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	ISSUED	F Name:	
Date:	06-Nov-1995	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	A1		
RAO Class Desc:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.		

Status:	REPORT	F Name:	
Date:	22-Dec-1995	L Name:	
Action:	RNF		

Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 22-Dec-1995 **OHM:** Oil
OFC Notification: 25-Oct-1995
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

Site: NO LOCATION AID RELEASE
PARMENTER RD AND WHITE POND RD HUDSON MA

RTN: 2-0012521 **Phase:**
Compliance Date: 11/24/1998 **RAO Class:** A1
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** ROADWAY
Notification Date: 11/24/1998 **Site Name (BWSC):** NO LOCATION AID
Source: 5 GALLON, BUCKETS **Address (BWSC):** PARMENTER RD AND WHITE POND RD
Reporting Category: TWO HR **Town (BWSC):** HUDSON
Site (EEA Data): NO LOCATION AID **Zip Code (BWSC):** 01749-0000
Rel Add(EEA Data): PARMENTER RD AND WHITE POND RD **OFC Town (BWSC):** HUDSON
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012521>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012521>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: OIL
Amount: 10
Units: GAL

Action Information (BWSC)

Status: RAORCD **F Name:**
Date: 24-Nov-1998 **L Name:**
Action: RAO-D
Action Description: RAO - DEP Lead
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 24-Nov-1998 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 24-Nov-1998
OFC Notification: 24-Nov-1998
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A1
OHM: Oil

Site: HYDRAULIC RELEASE
 GREEN ST HUDSON MA

RELEASE

RTN: 2-0013521
Compliance Date: 12/15/2000
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 10/12/2000
Source: EXCAVATE, PIPE
Reporting Category: TWO HR
Site (EEA Data): HYDRAULIC RELEASE
Rel Add(EEA Data): GREEN ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013521>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013521>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A1
Chemical Type: Oil
Location Type: COMMERCIAL, RESIDENTIAL
Site Name (BWSC): HYDRAULIC RELEASE
Address (BWSC): GREEN ST
Town (BWSC): HUDSON
Zip Code (BWSC): 01749-0000
OFC Town (BWSC): HUDSON

Chemical Information (BWSC)

Chemical: HYDRAULIC FLUID
Amount: 30
Units: GAL

Action Information (BWSC)

Status: RAORCD
Date: 15-Dec-2000
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 12-Oct-2000
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: APORAL
Date: 12-Oct-2000
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

F Name:
L Name:

Status: REPORT
Date: 11-Dec-2000
Action: RNF

F Name:
L Name:

Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED
Date: 18-Dec-2000
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 15-Dec-2000
OFC Notification: 12-Oct-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

Site: HUDSON LIGHT & POWER DEPT.
CHERRY ST HUDSON MA

RELEASE

RTN: 2-0000667
Compliance Date: 4/2/2010
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 9/13/1989
Source: PIPE
Reporting Category: NONE
Site (EEA Data): HUDSON LIGHT & POWER DEPT.
Rel Add(EEA Data): CHERRY ST
Town (EEA Data): HUDSON
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0000667>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0000667>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: PETROLEUM
Amount:
Units:

Action Information (BWSC)

Status: NAFNVD
Date: 01-Aug-2007
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: IMRCD
Date: 28-Oct-2004
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS
Date: 06-May-2002
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REMOPS
Date: 30-May-2001
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RMRINT
Date: 18-Apr-2008
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ROSSTR
Date: 15-Oct-2007
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 20-Nov-2003
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 30-Nov-2006
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: FLDRUN
Date: 25-Jul-2007
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Compliance Field Response - Unannounced
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TIER1A
Date: 18-Jan-1994
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1A Classification (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: CSRCVD
Date: 22-Nov-1999
Action: PHASEV
Action Description: Phase 5

F Name:
L Name:

Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 03-May-2004 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ROSSTR **F Name:**
Date: 28-Apr-2009 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ABCRCD **F Name:**
Date: 22-Nov-1999 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: As-Built Construction Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 02-Apr-2010 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 21-Apr-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 19-Apr-2007 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RMRINI **F Name:**
Date: 19-Apr-2007 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Initial Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ROSSTR **F Name:**
Date: 17-Oct-2008 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 27-Oct-2005 **L Name:**
Action: PHASEV

Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APPT1A **F Name:**
Date: 16-Jan-1996 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Tier 1A or Priority Submittal Approved (Retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APPT1A **F Name:**
Date: 18-Mar-1992 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Tier 1A or Priority Submittal Approved (Retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RECPT **F Name:**
Date: 21-Apr-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Transmittal, Notice, or Notification Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APPT1A **F Name:**
Date: 13-Dec-1999 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Tier 1A or Priority Submittal Approved (Retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: IMRCD **F Name:**
Date: 27-Apr-2005 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: IMRCD **F Name:**
Date: 24-Oct-2005 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 06-May-2003 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RMRINT **F Name:**
Date: 15-Oct-2007 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RMRINT **F Name:**
Date: 17-Oct-2008 **L Name:**

Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 24-Oct-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**
Date: 18-Feb-1997 **L Name:**
Action: PHSIII
Action Description: Phase 3
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TCTRNS **F Name:**
Date: 13-Sep-1989 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Valid Transition Site (Retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RMRFIN **F Name:**
Date: 02-Apr-2010 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Final Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: STRCVD **F Name:**
Date: 19-Apr-2007 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Status or Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 27-Apr-2010 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 06-May-2005 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 22-Dec-2009 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: CSRCVD **F Name:**

Date: 22-Mar-1996 **L Name:**
Action: PHASII
Action Description: Phase 2
Status Description: Completion Statement Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 26-Feb-1998 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: SNAUDI **F Name:**
Date: 13-Sep-2004 **L Name:**
Action: PHASIV
Action Description: Phase 4
Status Description: Level II - Audit Inspection
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: IMRCD **F Name:**
Date: 08-Nov-2002 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 02-Jun-2000 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ROSSTR **F Name:**
Date: 24-Oct-2006 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 05-Nov-2004 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PEREFF **F Name:**
Date: 21-Apr-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Permit Effective Date (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TIER1A **F Name:**
Date: 21-Apr-1994 **L Name:**
Action: TCLASS
Action Description: Tier Classification
Status Description: Tier 1A Classification (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: NAFNVD **F Name:**
Date: 13-Sep-2004 **L Name:**
Action: AUDCOM
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 13-Sep-1989 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: IMRCD **F Name:**
Date: 22-Nov-1999 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 05-Nov-2001 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REMOPS **F Name:**
Date: 05-Nov-2003 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RMRINT **F Name:**
Date: 28-Apr-2009 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ROSSTR **F Name:**
Date: 27-Oct-2009 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TERMIN **F Name:**
Date: 02-Apr-2010 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Action Status or AUL Terminated
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD **F Name:**
Date: 07-May-2004 **L Name:**
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: TSAUD
Date: 25-May-2006
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 25-Oct-2007
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: SOW
Date: 04-Jan-1996
Action: PHASII
Action Description: Phase 2
Status Description: Scope of Work Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: PRPMTG
Date: 13-Mar-2019
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Meeting with PRP or PRP Representative
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: REMOPS
Date: 08-Nov-2001
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status (ROS) Submittal Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: RMRINT
Date: 27-Oct-2009
Action: PHASEV
Action Description: Phase 5
Status Description: RMR Interim Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: ROSSTR
Date: 18-Apr-2008
Action: PHASEV
Action Description: Phase 5
Status Description: Remedy Operation Status Report Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: SNAUDI
Date: 01-Aug-2007
Action: PHASEV
Action Description: Phase 5
Status Description: Level II - Audit Inspection
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

F Name:
L Name:

Status: TSAUD
Date: 12-Nov-2008
Action: PHASEV
Action Description: Phase 5
Status Description: Level I - Technical Screen Audit
RAO Class: A2

F Name:
L Name:

RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: BWSC04 **F Name:**
Date: 21-Apr-1994 **L Name:**
Action: TREGS
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** NONE
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 02-Apr-2010 **OHM:** Oil
OFC Notification: 13-Sep-1989
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: **ROADWAY RELEASE** **RELEASE**
BOSTON POST RD MARLBOROUGH MA

RTN: 2-0013392 **Phase:**
Compliance Date: 9/28/2000 **RAO Class:** A2
Compliance Status: RAO **Chemical Type:** Oil
Compl Status Desc: Response Action Outcome **Location Type:** ROADWAY
Notification Date: 7/28/2000 **Site Name (BWSC):** ROADWAY RELEASE
Source: VEHICLE **Address (BWSC):** BOSTON POST RD
Reporting Category: TWO HR **Town (BWSC):** MARLBOROUGH
Site (EEA Data): ROADWAY RELEASE **Zip Code (BWSC):** 01752-0000
Rel Add(EEA Data): BOSTON POST RD **OFC Town (BWSC):** MARLBOROUGH
Town (EEA Data): MARLBOROUGH
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0013392>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0013392>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Chemical Information (BWSC)

Chemical: DIESEL FUEL
Amount: 20
Units: GAL

Action Information (BWSC)

Status: ISSUED **F Name:**
Date: 17-Aug-2000 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 28-Jul-2000 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: RAORCD **F Name:**
Date: 28-Sep-2000 **L Name:**
Action: RAO

Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FOLOFF
Date: 31-Jul-2000
Action: RLFA
Action Description: Site Visit or Office Follow-up
Status Description: Follow-up Office Response
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORMD
Date: 01-Aug-2000
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of a Modified Plan
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT
Date: 28-Sep-2000
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: APORAL
Date: 28-Jul-2000
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID:
Current Status: RAO
Current St Desc: Response Action Outcome
Current Date: 28-Sep-2000
OFC Notification: 28-Jul-2000
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Category: TWO HR
Phase:
RAO Class: A2
OHM: Oil

Site: M & M TRANSPORT CO
BOSTON POST RD MARLBOROUGH MA

RELEASE

RTN: 2-0012696
Compliance Date: 5/10/1999
Compliance Status: RAO
Compl Status Desc: Response Action Outcome
Notification Date: 3/9/1999
Source: VEHICLE
Reporting Category: TWO HR
Site (EEA Data): M & M TRANSPORT CO
Rel Add(EEA Data): BOSTON POST RD
Town (EEA Data): MARLBOROUGH
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Info URL: <https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0012696>
Docs URL: <https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0012696>
Report Source: Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)

Phase:
RAO Class: A1
Chemical Type:
Location Type: ROADWAY
Site Name (BWSC): M & M TRANSPORT CO
Address (BWSC): BOSTON POST RD
Town (BWSC): MARLBOROUGH
Zip Code (BWSC): 01752-0000
OFC Town (BWSC): MARLBOROUGH

Chemical Information (BWSC)

Chemical: DIESEL
Amount: 10
Units: GAL

Action Information (BWSC)

Status: REPORT **F Name:**
Date: 10-May-1999 **L Name:**
Action: RNF
Action Description: Release Notification Form Received
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: REPORT **F Name:**
Date: 09-Mar-1999 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: RAORCD **F Name:**
Date: 10-May-1999 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: RAO Statement Received (retired)
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: ISSUED **F Name:**
Date: 29-Mar-1999 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Status: APORAL **F Name:**
Date: 09-Mar-1999 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Oral Approval of Plan or Action
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A1
Current Date: 10-May-1999 **OHM:**
OFC Notification: 09-Mar-1999
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Other Rela:

Site: VEHICLE ACCIDENT
CHESTNUT ST HUDSON MA

RELEASE

RTN:	2-0021008	Phase:	
Compliance Date:	11/5/2019	RAO Class:	PN
Compliance Status:	PSNC	Chemical Type:	
Compl Status Desc:	Permanent Solution with No Conditions	Location Type:	ROADWAY
Notification Date:	9/8/2019	Site Name (BWSC):	VEHICLE ACCIDENT
Source:	HOSE, VEHICLE	Address (BWSC):	CHESTNUT ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	VEHICLE ACCIDENT	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	CHESTNUT ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0021008		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0021008		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Action Information (BWSC)

Status:	PSNRCD	F Name:	
Date:	05-Nov-2019	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Permanent Solution with No Conditions		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	ISSUED	F Name:	
Date:	17-Sep-2019	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Correspondence Issued		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	APORAL	F Name:	
Date:	08-Sep-2019	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	RECPT	F Name:	
Date:	18-Oct-2019	L Name:	
Action:	RNFE		
Action Description:	Release Notification		
Status Description:	Transmittal, Notice, or Notification Received		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	TSAUD	F Name:	
Date:	20-Nov-2019	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	Level I - Technical Screen Audit		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Status:	REPORT	F Name:	
Date:	08-Sep-2019	L Name:	
Action:	REL		
Action Description:	Release Disposition		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	PN		
RAO Class Desc:	Permanent Solution with No Conditions		

Release (BWSC) Detail

Prim ID:		Category:	TWO HR
Current Status:	PSNC	Phase:	
Current St Desc:	Permanent Solution with No Conditions	RAO Class:	PN
Current Date:	05-Nov-2019	OHM:	
OFC Notification:	08-Sep-2019		
Phase Desc:			
RAO Class Desc:	Permanent Solution with No Conditions		
Other Rela:			

Site: THOMAS TAYLOR & SONS FMR
HOUGHTON ST HUDSON MA

RELEASE

RTN:	2-0011383	Phase:	
Compliance Date:	9/3/1997	RAO Class:	A2
Compliance Status:	RAO	Chemical Type:	Oil
Compl Status Desc:	Response Action Outcome	Location Type:	WATERBODY
Notification Date:	8/28/1996	Site Name (BWSC):	THOMAS TAYLOR & SONS FMR
Source:	UNKNOWN	Address (BWSC):	HOUGHTON ST
Reporting Category:	TWO HR	Town (BWSC):	HUDSON
Site (EEA Data):	THOMAS TAYLOR & SONS FMR	Zip Code (BWSC):	01749-0000
Rel Add(EEA Data):	HOUGHTON ST	OFC Town (BWSC):	HUDSON
Town (EEA Data):	HUDSON		
Phase Desc:			
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		
Info URL:	https://eeaonline.eea.state.ma.us/Portal#!/wastesite/2-0011383		
Docs URL:	https://eeaonline.eea.state.ma.us/EEA/fileviewer/Rtn.aspx?rtn=2-0011383		
Report Source:	Waste Site & Reportable Releases Results (EEA Data Portal); Waste Site Cleanup Notifications & Status - Release (BWSC)		

Chemical Information (BWSC)

Chemical: #6 FUEL OIL
Amount:
Units:

Action Information (BWSC)

Status:	RAORCD	F Name:	
Date:	03-Sep-1997	L Name:	
Action:	RAO		
Action Description:	Response Action Outcome -RAO		
Status Description:	RAO Statement Received (retired)		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	APORAL	F Name:	
Date:	28-Aug-1996	L Name:	
Action:	IRA		
Action Description:	Immediate Response Action		
Status Description:	Oral Approval of Plan or Action		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	FLDISS	F Name:	
Date:	28-Aug-1996	L Name:	
Action:	NOR		
Action Description:	Notice of Responsibility		
Status Description:	Field NOR Issued		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status:	REPORT	F Name:	
Date:	21-May-1997	L Name:	
Action:	RNF		
Action Description:	Release Notification Form Received		
Status Description:	Reportable Release under MGL 21E		
RAO Class:	A2		
RAO Class Desc:	A permanent solution has been achieved. Contamination has not been reduced to background.		

Status: NON **F Name:**
Date: 18-Apr-1997 **L Name:**
Action: C&E
Action Description:
Status Description:
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: REPORT **F Name:**
Date: 28-Aug-1996 **L Name:**
Action: REL
Action Description: Release Disposition
Status Description: Reportable Release under MGL 21E
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: PLANWR **F Name:**
Date: 21-May-1997 **L Name:**
Action: IRA
Action Description: Immediate Response Action
Status Description: Written Plan Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: ISSUED **F Name:**
Date: 17-Sep-1996 **L Name:**
Action: NOR
Action Description: Notice of Responsibility
Status Description: Correspondence Issued
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Status: FEEREC **F Name:**
Date: 08-Sep-1997 **L Name:**
Action: RAO
Action Description: Response Action Outcome -RAO
Status Description: Fee Received
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.

Release (BWSC) Detail

Prim ID: **Category:** TWO HR
Current Status: RAO **Phase:**
Current St Desc: Response Action Outcome **RAO Class:** A2
Current Date: 03-Sep-1997 **OHM:** Oil
OFC Notification: 28-Aug-1996
Phase Desc:
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background.
Other Rela:

Site: **WATERS MANUFACTURING CO**
BOSTON POST ROAD WAYLAND MA 01778

SEMS

EPA ID: MAD982547424 **County:** MIDDLESEX
Site ID: **Latitude:**
NPL: **Longitude:**
Federal Facility: **County Name(MAP):** MIDDLESEX
Non NPL Status: **Latitude83(MAP):** 42.36
SuperF Alt Agrmnt: **Longitude83(MAP):** -71.38
FIPS Code: **Region:**
Date SEMS List: 26-AUG-2020 **Cong District:**
Primary Name(MAP): WATERS MANUFACTURING CO
Loc Address(MAP): BOSTON POST ROAD
City Name(MAP): WAYLAND
State Code(MAP): MA
Postal Code(MAP): 01778
Site Name: WATERS MANUFACTURING CO

Street Address: BOSTON POST ROAD
Street Address 2:
City: WAYLAND
State: MA
Zip: 01778

Site Level Information

Site ID: 0101528 **Superfund Alt Agmt:** No
NPL: Not on the NPL **FIPS Code:** 25017
Federal Facility: No **Cong District:** 04
FF Docket: No **Region:** 01
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Action Information

Site ID: 0101528 **Start Actual:** 07/01/2000
Operable Units: 00 **Finish Actual:** 03/10/2020
Action Code: VA **Qual:** N
Action Name: OTHR CLEANUP **Curr Action Lead:** St Ovrsght
SEQ: 1

Site ID: 0101528 **Start Actual:**
Operable Units: 00 **Finish Actual:** 12/30/1988
Action Code: PA **Qual:** L
Action Name: PA **Curr Action Lead:** St Perf
SEQ: 1

Site ID: 0101528 **Start Actual:** 03/30/1988
Operable Units: 00 **Finish Actual:** 03/30/1988
Action Code: DS **Qual:**
Action Name: DISCVRY **Curr Action Lead:** St Perf
SEQ: 1

Site ID: 0101528 **Start Actual:**
Operable Units: 00 **Finish Actual:** 08/01/1991
Action Code: SI **Qual:** L
Action Name: SI **Curr Action Lead:** St Perf
SEQ: 1

REST Information

Registry ID: 110009337137 **Ref Point Desc:**
Active Status: NOT ON THE NPL **HUC8 Code:** 01070005
Interest Type: SUPERFUND (NON-NPL) **Public Ind:** Y
Fac Url: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110009337137
Program Url:
Pgm Report: no data yet
Collect Mth Desc:
Accuracy Value: 0

Site: HUDSON WORSTED LAGOONS (FORMER)
OFF WHEELER RD HUDSON MA 01749

[SEMS ARCHIVE](#)

Site ID: 0102107 **FIPS Code:** 25017
EPA ID: MAD985278142 **Cong District:** 03
Superfund Alt Agmt: No **Region:** 01
Federal Facility: No **County:** MIDDLESEX
FF Docket: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Action Information

Operable Units: 00 **Start Actual:**
Action Code: VS **Finish Actual:** 03/31/1994
Action Name: ARCH SITE **Qual:**

SEQ:	1	Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00	Start Actual:	03/26/1990
Action Code:	DS	Finish Actual:	03/26/1990
Action Name:	DISCVRY	Qual:	
SEQ:	1	Curr Action Lead:	St Perf
Operable Units:	00	Start Actual:	06/01/1993
Action Code:	SI	Finish Actual:	03/31/1994
Action Name:	SI	Qual:	N
SEQ:	1	Curr Action Lead:	EPA Perf
Operable Units:	00	Start Actual:	
Action Code:	PA	Finish Actual:	02/24/1991
Action Name:	PA	Qual:	L
SEQ:	1	Curr Action Lead:	St Perf

Site: M & M TRANSPORT CO
BOSTON POST RD MARLBOROUGH MA 01752-0000

SPILLS

RTN: 2-0012696
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 5/10/1999
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: ROADWAY
Category: TWO HR
Initial Status Date: 3/9/2000
Notification Date: 3/9/1999
Source: VEHICLE
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0012696
Phase:
Phase Desc:
Office Town: MARLBOROUGH

Actions

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 5/10/1999
Status Description: RAO Statement Received (retired)

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 3/29/1999
Status Description: Correspondence Issued

Action: IRA
Status: APORAL
RAO Class: A1
Date: 3/9/1999
Status Description: Oral Approval of Plan or Action

Action: RNF
Status: REPORT
RAO Class: A1
Date: 5/10/1999
Status Description: Reportable Release under MGL 21E

Action: REL
Status: REPORT
RAO Class: A1
Date: 3/9/1999
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: DIESEL
Amount: 10
Unit: GAL

LSP Information

LSP: 9092
Name: OBRIEN, JAMES B

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 03/09/1999
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 03/09/1999
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/10/1999
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 05/10/1999
RAO Class: A1
Activity Use Limitation:

RAO Information

Class: A1
Method: N
GW Category: 2
Soil Category: 2

Location Information

Location: ROADWAY

Source Information

Source: VEHICLE

Site: **BANKS OF ASSABET RIVER**
WHEELER RD HUDSON MA 01749-0000

SPILLS

RTN: 2-0010972
Primary ID:
Compliance Status:
Current Status: RAO

Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 12/22/1995
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: WATERBODY
Category: TWO HR
Initial Status Date: 10/25/1996
Notification Date: 10/25/1995
Source: DRUMS
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0010972>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 10/27/1995
Status Description: Follow-up Office Response

Action: REL
Status: REPORT
RAO Class: A1
Date: 10/25/1995
Status Description: Reportable Release under MGL 21E

Action: RNF
Status: REPORT
RAO Class: A1
Date: 12/22/1995
Status Description: Reportable Release under MGL 21E

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 12/22/1995
Status Description: RAO Statement Received (retired)

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 10/25/1995
Status Description: Follow-up Office Response

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 11/6/1995
Status Description: Correspondence Issued

Chemical Information

Chemical: WASTE OIL
Amount:
Unit:

LSP Information

LSP: 9546
Name: SALVETTI, JOSEPH P

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 10/25/1995
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/22/1995
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 12/22/1995
RAO Class: A1
Activity Use Limitation: NONE

RAO Information

Class: A1
Method: N
GW Category:
Soil Category:

Location Information

Location: WATERBODY

Source Information

Source: DRUMS

Site: MHD STAGING AREA - SUDBURY RIV BRIDGE
BOSTON POST RD WAYLAND MA 01778-0000

SPILLS

RTN: 3-0027875
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 10/3/2008
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: RIGHTOFWAY,STATE,OPENSOURCE
Category: TWO HR
Initial Status Date: 7/30/2009
Notification Date: 7/30/2008
Source: UNKNOWN,DRUMS
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0027875>
Phase:
Phase Desc:
Office Town: WAYLAND

Actions

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 10/3/2008
Status Description: RAO Statement Received (retired)

Action: IRA
Status: PLANWR
RAO Class: A2
Date: 8/21/2008
Status Description: Written Plan Received

Action: RLFA
Status: FLDRAN
RAO Class: A2
Date: 8/14/2008
Status Description: Compliance Field Response - Announced

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 8/12/2008
Status Description: Follow-up Office Response

Action: RLFA
Status: FLDD1A
RAO Class: A2
Date: 7/30/2008
Status Description: Initial Compliance Field Response - Announced

Action: REL
Status: REPORT
RAO Class: A2
Date: 7/30/2008
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: APORMD
RAO Class: A2
Date: 8/12/2008
Status Description: Oral Approval of a Modified Plan

Action: IRA
Status: APWRIT
RAO Class: A2
Date: 8/26/2008
Status Description: Written Approval of Plan

Action: RNFE
Status: RECPT
RAO Class: A2
Date: 8/13/2008
Status Description: Transmittal, Notice, or Notification Received

Action: RNF
Status: REPORT
RAO Class: A2
Date: 8/13/2008
Status Description: Reportable Release under MGL 21E

Action: RLFA
Status: FLDRAN
RAO Class: A2
Date: 8/5/2008
Status Description: Compliance Field Response - Announced

Action: RLFA
Status: FLDRUN
RAO Class: A2
Date: 8/15/2008
Status Description: Compliance Field Response - Unannounced

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 8/5/2008

Status Description: Follow-up Office Response
Action: IRA
Status: APORAL
RAO Class: A2
Date: 7/30/2008
Status Description: Oral Approval of Plan or Action

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 8/8/2008
Status Description: Follow-up Office Response

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 8/26/2008
Status Description: Follow-up Office Response

Action: NOR
Status: FLDISS
RAO Class: A2
Date: 7/30/2008
Status Description: Field NOR Issued

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 8/22/2008
Status Description: Correspondence Issued

Chemical Information

Chemical: PETROLEUM/COAL TAR
Amount: 55
Unit: GAL

Chemical: UNKNOWN OHM
Amount: 55
Unit: GAL

Chemical: PETROLEUM BASED OIL
Amount: 10
Unit: GAL

LSP Information

LSP: 6048
Name: MCBRIDE, GREGG W

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 07/30/2008
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 10/03/2008
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: IRA Immediate Response Action
Status: APWRIT Written Approval of Plan
Submittal Date: 08/26/2008

RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/13/2008
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 3
GW Category: N
Soil Category: 2

Location Information

Location: RIGHTOFWAY
Location: STATE
Location: OPENSOURCE

Source Information

Source: UNKNOWN
Source: DRUMS

Site: HUDSON MUNICIPAL PARKING LOT
SOUTH ST ADJACENT TO 25 HUDSON MA

SPILLS

RTN: 2-0017073
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 5/1/2009
RAO Class: A3
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented
Chemical Type:
Release Type: RAO
Location Type: PRIVPROP,MUNICIPAL
Category: 120 DY
Initial Status Date: 5/5/2009
Notification Date: 5/5/2008
Source: UNKNOWN
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0017073>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: RAO
Status: FEEREC
RAO Class: A3
Date: 5/1/2009
Status Description: Fee Received

Action: RNF
Status: REPORT
RAO Class: A3

Date: 5/14/2008
Status Description: Reportable Release under MGL 21E

Action: AUL
Status: RECPT
RAO Class: A3
Date: 4/16/2009
Status Description: Transmittal, Notice, or Notification Received

Action: RLFA
Status: FLDRUN
RAO Class: A3
Date: 11/21/2013
Status Description: Compliance Field Response - Unannounced

Action: REL
Status: REPORT
RAO Class: A3
Date: 5/5/2008
Status Description: Reportable Release under MGL 21E

Action: RLFA
Status: FOLOFF
RAO Class: A3
Date: 2/19/2014
Status Description: Follow-up Office Response

Action: NOR
Status: ISSUED
RAO Class: A3
Date: 9/18/2008
Status Description: Correspondence Issued

Action: NOR
Status: ALSENT
RAO Class: A3
Date: 3/11/2009
Status Description: Anniversary Letter Sent

Action: RAO
Status: RAORCD
RAO Class: A3
Date: 5/1/2009
Status Description: RAO Statement Received (retired)

Action: URAM
Status: CSRCVD
RAO Class: A3
Date: 5/1/2009
Status Description: Completion Statement Received

Action: AUDCOM
Status: AFUCS
RAO Class: A3
Date: 5/29/2014
Status Description: AFUCS

Action: REL
Status: REPORT
RAO Class: A3
Date: 5/14/2008
Status Description: Reportable Release under MGL 21E

Action: AUL
Status: SNAUDI
RAO Class: A3
Date: 2/19/2014
Status Description: Level II - Audit Inspection

Action: URAM
Status: SNAUDI

RAO Class: A3
Date: 6/29/2009
Status Description: Level II - Audit Inspection

Action: AUL
Status: TSAUD
RAO Class: A3
Date: 11/20/2013
Status Description: Level I - Technical Screen Audit

Action: URAM
Status: INTENT
RAO Class: A3
Date: 5/5/2008
Status Description: Notice of Intent to Conduct a URAM

Action: RNFE
Status: RECPT
RAO Class: A3
Date: 2/6/2009
Status Description: Transmittal, Notice, or Notification Received

Action: URAM
Status: TSAUD
RAO Class: A3
Date: 5/21/2009
Status Description: Level I - Technical Screen Audit

Action: URAM
Status: URAMNT
RAO Class: A3
Date: 5/14/2008
Status Description: Notification of URAM Received

Action: RAO
Status: TSAUD
RAO Class: A3
Date: 5/21/2009
Status Description: Level I - Technical Screen Audit

Action: AUDCOM
Status: NAFNON
RAO Class: A3
Date: 2/19/2014
Status Description: NAFNON

Action: AUDCOM
Status: NAFNON
RAO Class: A3
Date: 6/29/2009
Status Description: NAFNON

Chemical Information

Chemical: PETROLEUM
Amount:
Unit:

LSP Information

LSP: 8959
Name: DELTUFO, ANTHONY M

Response Action Information

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/14/2008

RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/14/2008
RAO Class:
Activity Use Limitation:

Response Action Type: URAM Utility-related Abatement Measure
Status: SNAUDI Level II - Audit Inspection
Submittal Date: 06/29/2009
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 05/21/2009
RAO Class: A3
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/05/2008
RAO Class:
Activity Use Limitation:

Response Action Type: AUL Activity and Use Limitation
Status: SNAUDI Level II - Audit Inspection
Submittal Date: 02/19/2014
RAO Class:
Activity Use Limitation:

RAO Information

Class: A3
Method: 3
GW Category: 3
Soil Category: 1

Location Information

Location: MUNICIPAL
Location: PRIVPROP

Source Information

Source: UNKNOWN

Site: ADJACENT TO #32 EMERSON WAY
EMERSON WAY SUDBURY MA 01776-0000

SPILLS

RTN: 3-0028852
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 11/23/2009
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: UTILEASE,ROADWAY,MUNICIPAL,PRIVPROP
Category: TWO HR

Initial Status Date: 10/31/2010
Notification Date: 10/31/2009
Source: TRANSFORM
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0028852
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RNF
Status: REPORT
RAO Class: A1
Date: 11/23/2009
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: APORAL
RAO Class: A1
Date: 10/31/2009
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: TSAUD
RAO Class: A1
Date: 12/2/2009
Status Description: Level I - Technical Screen Audit

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 11/23/2009
Status Description: RAO Statement Received (retired)

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 11/23/2009
Status Description: Correspondence Issued

Action: RNFE
Status: RECPT
RAO Class: A1
Date: 11/23/2009
Status Description: Transmittal, Notice, or Notification Received

Action: REL
Status: REPORT
RAO Class: A1
Date: 10/31/2009
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: MINERAL OIL DIELECTRIC FLUID
Amount: 30
Unit: GAL

Chemical: MINERAL OIL DIELECTRIC FLUID
Amount: 26
Unit: GAL

LSP Information

LSP: 6016
Name: WATTON, DANIEL A

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 10/31/2009
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 10/31/2009
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 12/02/2009
RAO Class: A1
Activity Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 11/23/2009
RAO Class:
Activity Use Limitation:

RAO Information

Class: A1
Method: N
GW Category: N
Soil Category: 1

Location Information

Location: UTILEASE
Location: MUNICIPAL
Location: ROADWAY
Location: PRIVPROP

Source Information

Source: TRANSFORM

Site: ASSABET RIVER RAIL TRAIL
MAKIN AND COX ST (STATION 61 A MARLBOROUGH MA 01752-0000

SPILLS

RTN: 2-0015037
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 10/7/2004
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type:
Category: TWO HR
Initial Status Date: 12/9/2004
Notification Date: 12/9/2003
Source: UNKNOWN
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0015037>

Phase:
Phase Desc:
Office Town: MARLBOROUGH

Actions

Action: IRA
Status: STRCVD
RAO Class: A1
Date: 4/7/2004
Status Description: Status or Interim Report Received

Action: IRA
Status: TSAUD
RAO Class: A1
Date: 10/19/2004
Status Description: Level I - Technical Screen Audit

Action: RNF
Status: REPORT
RAO Class: A1
Date: 2/10/2004
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: PLANWR
RAO Class: A1
Date: 2/10/2004
Status Description: Written Plan Received

Action: REL
Status: REPORT
RAO Class: A1
Date: 12/9/2003
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: CSRCVD
RAO Class: A1
Date: 10/7/2004
Status Description: Completion Statement Received

Action: IRA
Status: TSAUD
RAO Class: A1
Date: 4/14/2004
Status Description: Level I - Technical Screen Audit

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 1/23/2004
Status Description: Correspondence Issued

Action: RAO
Status: TSAUD
RAO Class: A1
Date: 10/19/2004
Status Description: Level I - Technical Screen Audit

Action: IRA
Status: APORAL
RAO Class: A1
Date: 12/9/2003
Status Description: Oral Approval of Plan or Action

Action: IRA
Status: TSAUD
RAO Class: A1
Date: 5/19/2004

Status Description: Level I - Technical Screen Audit

Action: RAO
Status: FEEREC
RAO Class: A1
Date: 10/12/2004
Status Description: Fee Received

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 10/7/2004
Status Description: RAO Statement Received (retired)

Chemical Information

Chemical: ARSENIC
Amount: 97.7
Unit: PPM

LSP Information

LSP: 7196
Name: HIGGINS, JOSEPH E

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 10/19/2004
RAO Class: A1
Activity Use Limitation: NONE

Response Action Type: IRA Immediate Response Action
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 10/19/2004
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/09/2003
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 02/10/2004
RAO Class:
Activity Use Limitation:

RAO Information

Class: A1
Method: N
GW Category:
Soil Category: 1

Source Information

Source: UNKNOWN

Site: NO LOCATION AID
FRENCH ROAD SUDBURY MA 01776-0000

SPILLS

RTN: 3-0030731

Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 7/24/2012
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: ROADWAY
Category: TWO HR
Initial Status Date: 3/26/2013
Notification Date: 3/26/2012
Source: 2,150 GAL,SADDLE,TANKS,VEHICLE
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0030731
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 3/28/2012
Status Description: Follow-up Office Response

Action: RNFE
Status: RECPT
RAO Class: A2
Date: 5/23/2012
Status Description: Transmittal, Notice, or Notification Received

Action: RAO
Status: TSAUD
RAO Class: A2
Date: 10/16/2012
Status Description: Level I - Technical Screen Audit

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 7/24/2012
Status Description: RAO Statement Received (retired)

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 4/13/2012
Status Description: Correspondence Issued

Action: RLFA
Status: FLDD1U
RAO Class: A2
Date: 3/26/2012
Status Description: Initial Compliance Field Response - Unannounced

Action: RNF
Status: REPORT
RAO Class: A2
Date: 5/23/2012
Status Description: Reportable Release under MGL 21E

Action: BOL
Status: RECPT
RAO Class: A2
Date: 3/30/2012
Status Description: Transmittal, Notice, or Notification Received

Action: BOL
Status: SHPFAC
RAO Class: A2
Date: 4/13/2012
Status Description: Remediation was Shipped to a Facility

Action: REL
Status: REPORT
RAO Class: A2
Date: 3/26/2012
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: PLANWR
RAO Class: A2
Date: 5/25/2012
Status Description: Written Plan Received

Action: IRA
Status: APORMD
RAO Class: A2
Date: 3/28/2012
Status Description: Oral Approval of a Modified Plan

Action: IRA
Status: APORMD
RAO Class: A2
Date: 3/26/2012
Status Description: Oral Approval of a Modified Plan

Action: IRA
Status: APORAL
RAO Class: A2
Date: 3/26/2012
Status Description: Oral Approval of Plan or Action

Action: IRA
Status: TSAUD
RAO Class: A2
Date: 5/25/2012
Status Description: Level I - Technical Screen Audit

Action: NOR
Status: FLDISS
RAO Class: A2
Date: 3/26/2012
Status Description: Field NOR Issued

Action: RLFA
Status: FLDRUN
RAO Class: A2
Date: 3/27/2012
Status Description: Compliance Field Response - Unannounced

Chemical Information

Chemical: DIESEL FUEL
Amount: 150
Unit: GAL

LSP Information

LSP: 7770
Name: KLAGES, KURT E

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 03/26/2012
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 10/16/2012
RAO Class: A2
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 05/25/2012
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/23/2012
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: N
Soil Category: 1

Location Information

Location: ROADWAY

Source Information

Source: TANKS
Source: SADDLE
Source: 2,150 GAL
Source: VEHICLE

Site: SEPTAGE FACILITY
BOSTON POST RD WAYLAND MA 01778

SPILLS

RTN: 3-0001724
Primary ID:
Compliance Status:
Current Status: DEPND5
Current Status Desc: DEP Not a Disposal Site means that DEP has determined that these locations did not need to be reported and are not disposal sites
Current Date: 7/23/1993
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: DEPND5
Location Type:
Category: NONE
Initial Status Date: 10/1/1993
Notification Date: 4/15/1987
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0001724>
Phase:
Phase Desc:
Office Town: WAYLAND

Actions

Action: REL
Status: TCTRNS
RAO Class:
Date: 4/15/1987
Status Description: Valid Transition Site (Retired)

Action: TREGS
Status: DEPND5
RAO Class:
Date: 7/23/1993
Status Description: Not a Disposal Site - DEP

Chemical Information

Chemical: UNKNOWN
Amount:
Unit:

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 04/15/1987
RAO Class:
Activity Use Limitation:

Site: MA HIGHWAY DEPT
BOSTON POST RD RTE 20 SUDBURY MA 01776-0000

SPILLS

RTN: 3-0014245
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 11/18/1996
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: STATE
Category: 72 HR
Initial Status Date: 9/18/1997
Notification Date: 9/18/1996
Source: UST
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0014245>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 11/18/1996
Status Description: RAO Statement Received (retired)

Action: IRA
Status: CSRCVD
RAO Class: A2
Date: 11/18/1996
Status Description: Completion Statement Received

Action: RNF
Status: REPORT
RAO Class: A2
Date: 11/18/1996
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: APORAL
RAO Class: A2
Date: 9/18/1996
Status Description: Oral Approval of Plan or Action

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 9/30/1996
Status Description: Correspondence Issued

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 9/18/1996
Status Description: Follow-up Office Response

Action: REL
Status: REPORT
RAO Class: A2
Date: 9/18/1996
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: GASOLINE
Amount: 650
Unit: PPMV

LSP Information

LSP: 4058
Name: STONE, ALTON D

Response Action Information

Response Action Type: IRA Immediate Response Action
Status: CSRCVD Completion Statement Received
Submittal Date: 11/18/1996
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 11/18/1996
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 11/18/1996
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/18/1996
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: N
GW Category: 1
Soil Category: 3

Location Information

Location: STATE

Source Information

Source: UST

Site: NO LOCATION AID
STONE RD SUDBURY MA 01776-0000

SPILLS

RTN: 3-0015866
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 2/20/1998
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: ROADWAY
Category: TWO HR
Initial Status Date: 12/26/1998
Notification Date: 12/26/1997
Source: PIPE,VEHICLE
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0015866>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: REL
Status: REPORT
RAO Class: A2
Date: 12/26/1997
Status Description: Reportable Release under MGL 21E

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 1/22/1998
Status Description: Correspondence Issued

Action: IRA
Status: APORAL
RAO Class: A2
Date: 12/26/1997
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 2/20/1998
Status Description: RAO Statement Received (retired)

Action: RNF
Status: REPORT

RAO Class: A2
Date: 2/20/1998
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: HYDRAULIC FLUID
Amount: 40
Unit: GAL

Chemical: HYDRAULIC OIL
Amount: 21
Unit: GAL

LSP Information

LSP: 2062
Name: AUSTIN, DAVID G

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 02/20/1998
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/26/1997
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 02/20/1998
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 12/26/1997
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 1
Soil Category: 1

Location Information

Location: ROADWAY

Source Information

Source: VEHICLE

Source: PIPE

Site: ROADWAY RELEASE
BOSTON POST RD MARLBOROUGH MA 01752-0000

SPILLS

RTN: 2-0013392
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 9/28/2000
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: ROADWAY
Category: TWO HR
Initial Status Date: 7/28/2001
Notification Date: 7/28/2000
Source: VEHICLE
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0013392>
Phase:
Phase Desc:
Office Town: MARLBOROUGH

Actions

Action: REL
Status: REPORT
RAO Class: A2
Date: 7/28/2000
Status Description: Reportable Release under MGL 21E

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 7/31/2000
Status Description: Follow-up Office Response

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 8/17/2000
Status Description: Correspondence Issued

Action: IRA
Status: APORAL
RAO Class: A2
Date: 7/28/2000
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 9/28/2000
Status Description: RAO Statement Received (retired)

Action: IRA
Status: APORMD
RAO Class: A2
Date: 8/1/2000
Status Description: Oral Approval of a Modified Plan

Action: RNF
Status: REPORT
RAO Class: A2
Date: 9/28/2000
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: DIESEL FUEL

Amount: 20
Unit: GAL

LSP Information

LSP: N/A
Name: MIGRIDICHIAN, STEVEN M

Response Action Information

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/28/2000
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORMD Oral Approval of a Modified Plan
Submittal Date: 08/01/2000
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 09/28/2000
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 07/28/2000
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 3
Soil Category: 1

Location Information

Location: ROADWAY

Source Information

Source: VEHICLE

Site: NO LOCATION AID
OLD LANCASTER RD SUDBURY MA 01776

SPILLS

RTN: 3-0011165
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 9/7/1994
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: COMMERCIAL

Category: TWO HR
Initial Status Date: 6/19/1995
Notification Date: 6/19/1994
Source: TRANSFORM
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0011165
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 7/12/1994
Status Description: Correspondence Issued

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 6/23/1994
Status Description: Follow-up Office Response

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 9/7/1994
Status Description: RAO Statement Received (retired)

Action: REL
Status: REPORT
RAO Class: A1
Date: 6/19/1994
Status Description: Reportable Release under MGL 21E

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 6/29/1994
Status Description: Follow-up Office Response

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 6/19/1994
Status Description: Follow-up Office Response

Action: RNF
Status: REPORT
RAO Class: A1
Date: 9/7/1994
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: APORAL
RAO Class: A1
Date: 6/29/1994
Status Description: Oral Approval of Plan or Action

Action: IRA
Status: APORAL
RAO Class: A1
Date: 6/19/1994
Status Description: Oral Approval of Plan or Action

Chemical Information

Chemical: OIL
Amount: 25

Unit: GAL
Chemical: TRANSFORMER OIL
Amount: 25
Unit: GAL

LSP Information

LSP: 4183
Name: LILLEY, FRANK W
LSP: 3965
Name: DE GROOT-BOIS, CAROL

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 09/07/1994
RAO Class: A1
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/07/1994
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/19/1994
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 06/29/1994
RAO Class:
Activity Use Limitation:

RAO Information

Class: A1
Method: 1
GW Category: 1
Soil Category: 1

Location Information

Location: COMMERCIAL

Source Information

Source: TRANSFORM

Site: TOWN OF SUDBURY
WOODSIDE RD SUDBURY MA 01776-0000

SPILLS.....

RTN: 3-0016916
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 8/21/1998

RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: MUNICIPAL
Category: 72 HR
Initial Status Date: 6/15/1999
Notification Date: 6/15/1998
Source: UST
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0016916
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RNF
Status: REPORT
RAO Class: A2
Date: 8/11/1998
Status Description: Reportable Release under MGL 21E

Action: IRA
Status: APORAL
RAO Class: A2
Date: 6/15/1998
Status Description: Oral Approval of Plan or Action

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 7/27/1998
Status Description: Correspondence Issued

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 8/21/1998
Status Description: RAO Statement Received (retired)

Action: REL
Status: REPORT
RAO Class: A2
Date: 6/15/1998
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: #2 FUEL OIL
Amount: 294
Unit: PPMV

Chemical: FUEL OIL #2
Amount: 300
Unit: PPMV

LSP Information

LSP: 8959
Name: DELTUFO, ANTHONY M

Response Action Information

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 06/15/1998
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/11/1998
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 08/21/1998
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/15/1998
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 3
Soil Category: 1

Location Information

Location: MUNICIPAL

Source Information

Source: UST

Site: HUDSON POWER & LIGHT
CAUSEWAY ST HUDSON MA 01749-0000

SPILLS

RTN: 2-0011992
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 1/13/1998
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: ROADWAY
Category: TWO HR
Initial Status Date: 11/22/1998
Notification Date: 11/22/1997
Source: TRANSFORM
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0011992>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: RLFA
Status: FOLOFF
RAO Class: A1
Date: 11/22/1997
Status Description: Follow-up Office Response

Action: IRA
Status: APORAL
RAO Class: A1
Date: 11/22/1997
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 1/13/1998
Status Description: RAO Statement Received (retired)

Action: REL
Status: REPORT
RAO Class: A1
Date: 11/22/1997
Status Description: Reportable Release under MGL 21E

Action: RNF
Status: REPORT
RAO Class: A1
Date: 1/13/1998
Status Description: Reportable Release under MGL 21E

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 12/12/1997
Status Description: Correspondence Issued

Chemical Information

Chemical: MINERAL OIL
Amount: 21.4
Unit: GAL

Chemical: TRANSFORMER OIL
Amount: 21.4
Unit: GAL

LSP Information

LSP: 9092
Name: OBRIEN, JAMES B

Response Action Information

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 01/13/1998
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 11/22/1997
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 11/22/1997
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received

Submittal Date: 01/13/1998
RAO Class: A1
Activity Use Limitation: NONE

RAO Information

Class: A1
Method: N
GW Category: 2
Soil Category: 2

Location Information

Location: ROADWAY

Source Information

Source: TRANSFORM

Site: THOMAS TAYLOR & SONS FMR
HOUGHTON ST HUDSON MA 01749-0000

SPILLS

RTN: 2-0011383
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 9/3/1997
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: WATERBODY
Category: TWO HR
Initial Status Date: 8/28/1997
Notification Date: 8/28/1996
Source: UNKNOWN
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0011383>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: RNF
Status: REPORT
RAO Class: A2
Date: 5/21/1997
Status Description: Reportable Release under MGL 21E

Action: C&E
Status: NON
RAO Class: A2
Date: 4/18/1997
Status Description: NON

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 9/17/1996
Status Description: Correspondence Issued

Action: IRA
Status: PLANWR
RAO Class: A2

Date: 5/21/1997
Status Description: Written Plan Received

Action: NOR
Status: FLDISS
RAO Class: A2
Date: 8/28/1996
Status Description: Field NOR Issued

Action: REL
Status: REPORT
RAO Class: A2
Date: 8/28/1996
Status Description: Reportable Release under MGL 21E

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 9/3/1997
Status Description: RAO Statement Received (retired)

Action: IRA
Status: APORAL
RAO Class: A2
Date: 8/28/1996
Status Description: Oral Approval of Plan or Action

Action: RAO
Status: FEEREC
RAO Class: A2
Date: 9/8/1997
Status Description: Fee Received

Chemical Information

Chemical: #6 FUEL OIL
Amount:
Unit:

LSP Information

LSP: 4075
Name: LUBY, THOMAS P

Response Action Information

Response Action Type: IRA Immediate Response Action
Status: PLANWR Written Plan Received
Submittal Date: 05/21/1997
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: FEEREC Fee Received - TFS Use Only
Submittal Date: 09/08/1997
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/21/1997
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/28/1996
RAO Class:

Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 2
Soil Category: 2

Location Information

Location: WATERBODY

Source Information

Source: UNKNOWN

Site: INTERSECTION
BOSTON POST RD SUDBURY MA 01776-0000

SPILLS

RTN: 3-0027918
Primary ID:
Compliance Status:
Current Status: URAM
Current Status Desc: A Release Tracking Number has been assigned to a release where a Utility-abatement Measure is being or was performed
Current Date: 8/28/2008
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: URAM
Location Type: RIGHTOFWAY,ROADWAY
Category: 120 DY
Initial Status Date: 8/21/2009
Notification Date: 8/21/2008
Source: UNKNOWN
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0027918>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: REL
Status: REPORT
RAO Class:
Date: 8/21/2008
Status Description: Reportable Release under MGL 21E

Action: URAM
Status: TSAUD
RAO Class:
Date: 1/15/2009
Status Description: Level I - Technical Screen Audit

Action: URAM
Status: URAMNT
RAO Class:
Date: 8/28/2008
Status Description: Notification of URAM Received

Action: NOR
Status: URAMLR
RAO Class:
Date: 8/26/2008
Status Description: Letter of Responsibility URAM or Municipality

Action: URAM
Status: CSRCVD
RAO Class:
Date: 6/8/2009
Status Description: Completion Statement Received

Action: URAM
Status: STRCVD
RAO Class:
Date: 12/31/2008
Status Description: Status or Interim Report Received

Action: URAM
Status: INTENT
RAO Class:
Date: 8/21/2008
Status Description: Notice of Intent to Conduct a URAM

Action: URAM
Status: TSAUD
RAO Class:
Date: 8/28/2008
Status Description: Level I - Technical Screen Audit

Chemical Information

Chemical: NAPHTHALENE
Amount: 4
Unit: MG/KG

LSP Information

LSP: 4208
Name: LOTTI, MICHAEL S

Response Action Information

Response Action Type: URAM Utility-related Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 06/08/2009
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/21/2008
RAO Class:
Activity Use Limitation:

Location Information

Location: RIGHTOFWAY

Location: ROADWAY

Source Information

Source: UNKNOWN

Site: RIVERSIDE FARM ESTATES
OFF ZINA RD HUDSON MA 01749-0000

SPILLS

RTN: 2-0016023
Primary ID:
Compliance Status:
Current Status: RAO

Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 2/13/2007
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type:
Category: 120 DY
Initial Status Date: 12/5/2006
Notification Date: 12/5/2005
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0016023>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: NOR
Status: ALSENT
RAO Class: A2
Date: 10/18/2006
Status Description: Anniversary Letter Sent

Action: RLFA
Status: FLDRAN
RAO Class: A2
Date: 3/8/2006
Status Description: Compliance Field Response - Announced

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 12/14/2005
Status Description: Follow-up Office Response

Action: RAM
Status: TSAUD
RAO Class: A2
Date: 3/20/2006
Status Description: Level I - Technical Screen Audit

Action: RAM
Status: STRCVD
RAO Class: A2
Date: 7/14/2006
Status Description: Status or Interim Report Received

Action: RAM
Status: CSRCVD
RAO Class: A2
Date: 2/13/2007
Status Description: Completion Statement Received

Action: RAM
Status: TSAUD
RAO Class: A2
Date: 8/1/2006
Status Description: Level I - Technical Screen Audit

Action: RLFA
Status: FOLOFF
RAO Class: A2
Date: 4/1/2008
Status Description: Follow-up Office Response

Action: RAM
Status: PLANWR

RAO Class: A2
Date: 3/8/2006
Status Description: Written Plan Received

Action: RAO
Status: FEEREC
RAO Class: A2
Date: 2/13/2007
Status Description: Fee Received

Action: RAM
Status: PLANWR
RAO Class: A2
Date: 12/5/2005
Status Description: Written Plan Received

Action: C&E
Status: NON
RAO Class: A2
Date: 3/16/2006
Status Description: NON

Action: RNF
Status: REPORT
RAO Class: A2
Date: 12/5/2005
Status Description: Reportable Release under MGL 21E

Action: REL
Status: REPORT
RAO Class: A2
Date: 12/5/2005
Status Description: Reportable Release under MGL 21E

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 1/20/2006
Status Description: Correspondence Issued

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 2/13/2007
Status Description: RAO Statement Received (retired)

Action: RLFA
Status: FLDRUN
RAO Class: A2
Date: 3/3/2006
Status Description: Compliance Field Response - Unannounced

Action: RAO
Status: TSAUD
RAO Class: A2
Date: 2/21/2007
Status Description: Level I - Technical Screen Audit

Action: RAM
Status: TSAUD
RAO Class: A2
Date: 12/15/2005
Status Description: Level I - Technical Screen Audit

Action: RAM
Status: FEEREC
RAO Class: A2
Date: 3/9/2006
Status Description: Fee Received

Action: RNF

Status: REPORT
RAO Class: A2
Date: 8/7/2006
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: PCB
Amount: 6.8
Unit: MG/KG

Chemical: DIELDRIN
Amount: 0.14
Unit: MG/KG

Chemical: SVOS'S
Amount: 7
Unit: MG/KG

Chemical: 4-ISOPROPYLTOLUENE
Amount: 2300
Unit: MG/KG

Chemical: DISSOLVED LEAD
Amount: 179
Unit: UG/L

Chemical: TPH
Amount: 56000
Unit: MG/KG

LSP Information

LSP: N/A
Name: ST HILAIRE, WILLIAM J

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 02/21/2007
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/05/2005
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/05/2005
RAO Class:
Activity Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 02/13/2007
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 08/07/2006
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 3
Soil Category: 1

Site: **CONCORD ST
BOSTON POST RD (RTE 20) SUDBURY MA 01776-0000**

SPILLS

RTN: 3-0015581
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 9/29/1997
RAO Class: B1
RAO Class Desc: Remedial actions have not been conducted because a level of No Significant Risk exists
Chemical Type:
Release Type: RAO
Location Type:
Category: 120 DY
Initial Status Date: 9/29/1998
Notification Date: 9/29/1997
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0015581>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: REL
Status: REPORT
RAO Class: B1
Date: 9/29/1997
Status Description: Reportable Release under MGL 21E

Action: RAO
Status: RAORCD
RAO Class: B1
Date: 9/29/1997
Status Description: RAO Statement Received (retired)

Action: RAO
Status: TSAUD
RAO Class: B1
Date: 1/15/2010
Status Description: Level I - Technical Screen Audit

Action: RNF
Status: REPORT
RAO Class: B1
Date: 9/29/1997
Status Description: Reportable Release under MGL 21E

Chemical Information

Chemical: TRICHLOROETHANE
Amount: 235
Unit: PPB

Chemical: TETRACHLOROETHANE
Amount: 392
Unit: PPB

Chemical: VINYL CHLORIDE
Amount: 29.9
Unit: PPB

Chemical: TRANS-1,2-DICHLOROETHENE
Amount: 429
Unit: PPB

LSP Information

LSP: N/A
Name: OBRIEN, JAMES D

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 01/15/2010
RAO Class: B1
Activity Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/29/1997
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/29/1997
RAO Class:
Activity Use Limitation:

RAO Information

Class: B1
Method: 1
GW Category: 2
Soil Category: 2

Site: NO LOCATION AID
LOT 215 COOLIDGE ST HUDSON MA 01749-0000

SPILLS

RTN: 2-0015912
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 12/6/2005
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type:
Category: 120 DY
Initial Status Date: 9/23/2006
Notification Date: 9/23/2005
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0015912>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: RAM
Status: PLANWR
RAO Class: A2
Date: 9/23/2005
Status Description: Written Plan Received

Action: REL
Status: REPORT
RAO Class: A2
Date: 9/23/2005
Status Description: Reportable Release under MGL 21E

Action: RAM
Status: TSAUD
RAO Class: A2
Date: 10/3/2005
Status Description: Level I - Technical Screen Audit

Action: RAM
Status: CSRCVD
RAO Class: A2
Date: 12/6/2005
Status Description: Completion Statement Received

Action: RNF
Status: REPORT
RAO Class: A2
Date: 9/23/2005
Status Description: Reportable Release under MGL 21E

Action: RAO
Status: TSAUD
RAO Class: A2
Date: 1/13/2006
Status Description: Level I - Technical Screen Audit

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 11/10/2005
Status Description: Correspondence Issued

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 12/6/2005
Status Description: RAO Statement Received (retired)

Action: RAM
Status: FEEREC
RAO Class: A2
Date: 9/26/2005
Status Description: Fee Received

Action: RAM
Status: PLANMD
RAO Class: A2
Date: 9/29/2005
Status Description: Modified Revised or Updated Plan Received

Chemical Information

Chemical: #2 FUEL OIL
Amount: 12000
Unit: MG/KG

Chemical: NAPHTHALENE
Amount: 24
Unit: MG/KG

LSP Information

LSP: 3722
Name: THOMPSON, DAVID J

Response Action Information

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 12/06/2005
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/23/2005
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 09/23/2005
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 01/13/2006
RAO Class: A2
Activity Use Limitation: NONE

RAO Information

Class: A2
Method: 1
GW Category: 3
Soil Category: 3

Site: HUDSON LIGHT & POWER DEPT.
CHERRY ST HUDSON MA 01749-0000

SPILLS

RTN: 2-0000667
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 4/2/2010
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type: WETLANDS,UTILITY,MUNICIPAL
Category: NONE
Initial Status Date: 5/18/1995
Notification Date: 9/13/1989
Source: PIPE
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0000667>
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: PHASEV
Status: STRCVD

RAO Class: A2
Date: 10/24/2006
Status Description: Status or Interim Report Received

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 4/27/2010
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 11/12/2008
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 11/30/2006
Status Description: Level I - Technical Screen Audit

Action: REL
Status: TCTRNS
RAO Class: A2
Date: 9/13/1989
Status Description: Valid Transition Site (Retired)

Action: PHASEV
Status: CSRCVD
RAO Class: A2
Date: 11/22/1999
Status Description: Completion Statement Received

Action: PHASEV
Status: IMRCD
RAO Class: A2
Date: 11/22/1999
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: PHASEV
Status: RMRINT
RAO Class: A2
Date: 4/18/2008
Status Description: RMR Interim Report Received

Action: PHASEV
Status: RMRINT
RAO Class: A2
Date: 10/17/2008
Status Description: RMR Interim Report Received

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 11/5/2003
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 12/22/2009
Status Description: Level I - Technical Screen Audit

Action: PHASIV
Status: ABCRCD
RAO Class: A2
Date: 11/22/1999
Status Description: As-Built Construction Report Received

Action: PHASEV

Status: IMRCD
RAO Class: A2
Date: 11/8/2002
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 10/27/2005
Status Description: Level I - Technical Screen Audit

Action: TCLASS
Status: TIER1A
RAO Class: A2
Date: 4/21/1994
Status Description: Tier 1A Classification (retired)

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 11/20/2003
Status Description: Level I - Technical Screen Audit

Action: TCLASS
Status: PEREFF
RAO Class: A2
Date: 4/21/1994
Status Description: Permit Effective Date (retired)

Action: PHASII
Status: SOW
RAO Class: A2
Date: 1/4/1996
Status Description: Scope of Work Received

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 4/2/2010
Status Description: RAO Statement Received (retired)

Action: TCLASS
Status: TIER1A
RAO Class: A2
Date: 1/18/1994
Status Description: Tier 1A Classification (retired)

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 5/30/2001
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 10/17/2008
Status Description: Remedy Operation Status Report Received

Action: TCLASS
Status: RECPT
RAO Class: A2
Date: 4/21/1994
Status Description: Transmittal, Notice, or Notification Received

Action: PHASEV
Status: RMRINT
RAO Class: A2
Date: 10/15/2007
Status Description: RMR Interim Report Received

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 10/15/2007
Status Description: Remedy Operation Status Report Received

Action: RLFA
Status: FLDRUN
RAO Class: A2
Date: 7/25/2007
Status Description: Compliance Field Response - Unannounced

Action: TREGS
Status: BWSC04
RAO Class: A2
Date: 4/21/1994
Status Description: BWSC04

Action: PHASEV
Status: RMRFIN
RAO Class: A2
Date: 4/2/2010
Status Description: RMR Final Report Received

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 4/19/2007
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASEV
Status: RMRINT
RAO Class: A2
Date: 4/28/2009
Status Description: RMR Interim Report Received

Action: PHASEV
Status: APPT1A
RAO Class: A2
Date: 12/13/1999
Status Description: Tier 1A or Priority Submittal Approved (Retired)

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 11/5/2001
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 10/25/2007
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: RMRINT
RAO Class: A2
Date: 10/27/2009
Status Description: RMR Interim Report Received

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 4/18/2008
Status Description: Remedy Operation Status Report Received

Action: AUDCOM
Status: NAFNVD
RAO Class: A2
Date: 8/1/2007
Status Description: NAFNVD

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 5/6/2002
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 4/28/2009
Status Description: Remedy Operation Status Report Received

Action: PHASII
Status: CSRCVD
RAO Class: A2
Date: 3/22/1996
Status Description: Completion Statement Received

Action: PHSIII
Status: CSRCVD
RAO Class: A2
Date: 2/18/1997
Status Description: Completion Statement Received

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 10/24/2006
Status Description: Remedy Operation Status Report Received

Action: PHASEV
Status: STRCVD
RAO Class: A2
Date: 4/19/2007
Status Description: Status or Interim Report Received

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 11/5/2004
Status Description: Level I - Technical Screen Audit

Action: PHASII
Status: APPT1A
RAO Class: A2
Date: 1/16/1996
Status Description: Tier 1A or Priority Submittal Approved (Retired)

Action: PHASEV
Status: IMRCD
RAO Class: A2
Date: 10/28/2004
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: PHASEV
Status: TERMIN
RAO Class: A2
Date: 4/2/2010
Status Description: Action Status or AUL Terminated

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 5/6/2003
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASIV
Status: SNAUDI
RAO Class: A2
Date: 9/13/2004

Status Description: Level II - Audit Inspection
Action: PHASII
Status: APPT1A
RAO Class: A2
Date: 3/18/1992
Status Description: Tier 1A or Priority Submittal Approved (Retired)

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 6/2/2000
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 9/13/1989
Status Description: Correspondence Issued

Action: AUDCOM
Status: NAFNVD
RAO Class: A2
Date: 9/13/2004
Status Description: NAFNVD

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 5/25/2006
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: RMRINI
RAO Class: A2
Date: 4/19/2007
Status Description: RMR Initial Report Received

Action: PHASEV
Status: SNAUDI
RAO Class: A2
Date: 8/1/2007
Status Description: Level II - Audit Inspection

Action: PHASEV
Status: TSAUD
RAO Class: A2
Date: 5/7/2004
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 5/3/2004
Status Description: Remedy Operation Status (ROS) Submittal Received

Action: PHASIV
Status: PLANWR
RAO Class: A2
Date: 2/26/1998
Status Description: Written Plan Received

Action: PHASEV
Status: IMRCD
RAO Class: A2
Date: 10/24/2005
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: PHASEV
Status: TSAUD
RAO Class: A2

Date: 5/6/2005
Status Description: Level I - Technical Screen Audit

Action: PHASEV
Status: IMRCD
RAO Class: A2
Date: 4/27/2005
Status Description: Post-RAO C Status Report Received (Ph V-prior to 05 only)

Action: PHASEV
Status: ROSSTR
RAO Class: A2
Date: 10/27/2009
Status Description: Remedy Operation Status Report Received

Action: PHASEV
Status: CSRCVD
RAO Class: A2
Date: 4/21/2006
Status Description: Completion Statement Received

Action: PHASEV
Status: REMOPS
RAO Class: A2
Date: 11/8/2001
Status Description: Remedy Operation Status (ROS) Submittal Received

Chemical Information

Chemical: PETROLEUM
Amount:
Unit:

LSP Information

LSP: N/A
Name: POMEROY, DONALD L

LSP: 9969
Name: PARKER, SCOTT K

LSP: 5928
Name: MOORE, JONATHAN S

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: TCTRNS Tier Classified Transition Sites
Submittal Date: 09/13/1989
RAO Class:
Activity Use Limitation:

Response Action Type: PHASIV Phase 4
Status: SNAUDI Level II - Audit Inspection
Submittal Date: 09/13/2004
RAO Class:
Activity Use Limitation:

Response Action Type: PHSIII Phase 3
Status: CSRCVD Completion Statement Received
Submittal Date: 02/18/1997
RAO Class:
Activity Use Limitation:

Response Action Type: PHASII Phase 2
Status: CSRCVD Completion Statement Received
Submittal Date: 03/22/1996
RAO Class:

Activity Use Limitation:

Response Action Type: PHASEV Phase 5
Status: TSAUD Level I - Technical Screen Audit
Submittal Date: 04/27/2010
RAO Class:
Activity Use Limitation:

Response Action Type: TCLASS Tier Classification
Status: PEREFF Permit Effective Date
Submittal Date: 04/21/1994
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 04/02/2010
RAO Class: A2
Activity Use Limitation:

RAO Information

Class: A2
Method: 3
GW Category: 2
Soil Category: 3

Location Information

Location: MUNICIPAL
Location: WETLANDS
Location: UTILITY

Source Information

Source: PIPE

Site: BEHIND 4 LAKESHORE DR
DUDLEY POND WAYLAND MA 01778

SPILLS

RTN: 3-0011146
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 10/26/1994
RAO Class:
RAO Class Desc:
Chemical Type:
Release Type: RAO
Location Type: RESIDENTIAL, WATERBODY
Category: TWO HR
Initial Status Date: 6/15/1995
Notification Date: 6/15/1994
Source: DRUMS
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0011146>
Phase:
Phase Desc:
Office Town: WAYLAND

Actions

Action: REL

Status: REPORT
RAO Class:
Date: 4/20/1995
Status Description: Reportable Release under MGL 21E

Action: REL
Status: REPORT
RAO Class:
Date: 6/15/1994
Status Description: Reportable Release under MGL 21E

Action: IRA-D
Status: WORKST
RAO Class:
Date: 6/15/1994
Status Description: Work Started

Action: RLFA
Status: FOLFLD
RAO Class:
Date: 6/15/1994
Status Description: Follow-up or Other Field Response

Action: RLFA
Status: FOLOFF
RAO Class:
Date: 6/23/1994
Status Description: Follow-up Office Response

Action: IRA
Status: APORAL
RAO Class:
Date: 6/15/1994
Status Description: Oral Approval of Plan or Action

Action: RAO-D
Status: RAORCD
RAO Class:
Date: 10/26/1994
Status Description: RAO Statement Received (retired)

Chemical Information

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL
Amount: 611
Unit: PPMV

Response Action Information

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 06/15/1994
RAO Class:
Activity Use Limitation:

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 06/15/1994
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 04/20/1995
RAO Class:
Activity Use Limitation:

Response Action Type: IRA-D Immediate Response Action - DEP Lead
Status: WORKST Work Started

Submittal Date: 06/15/1994
RAO Class:
Activity Use Limitation:

Response Action Type: RAO-D RAO - DEP Lead
Status: RAORCD RAO Statement Received
Submittal Date: 10/26/1994
RAO Class:
Activity Use Limitation:

Location Information

Location: WATERBODY
Location: RESIDENTIAL

Source Information

Source: DRUMS

Site: MASS HGWY DEPOT NEAR OLD COUNTY RD
BOSTON POST RD RTE 20 SUDBURY MA 01776-0000

SPILLS

RTN: 3-0018306
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 5/5/2000
RAO Class: A2
RAO Class Desc: A permanent solution has been achieved. Contamination has not been reduced to background
Chemical Type:
Release Type: RAO
Location Type:
Category: 120 DY
Initial Status Date: 5/5/2000
Notification Date: 5/5/1999
Source:
Additional Files URL: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=3-0018306>
Phase:
Phase Desc:
Office Town: SUDBURY

Actions

Action: RAM
Status: CSRCVD
RAO Class: A2
Date: 5/5/2000
Status Description: Completion Statement Received

Action: RAO
Status: RAORCD
RAO Class: A2
Date: 5/5/2000
Status Description: RAO Statement Received (retired)

Action: NOR
Status: ISSUED
RAO Class: A2
Date: 7/13/1999
Status Description: Correspondence Issued

Action: REL
Status: REPORT
RAO Class: A2

Date: 5/5/1999
Status Description: Reportable Release under MGL 21E

Action: RNF
Status: REPORT
RAO Class: A2
Date: 5/5/1999
Status Description: Reportable Release under MGL 21E

Action: RAM
Status: PLANWR
RAO Class: A2
Date: 10/5/1999
Status Description: Written Plan Received

Action: RAM
Status: STRCVD
RAO Class: A2
Date: 2/22/2000
Status Description: Status or Interim Report Received

Chemical Information

Chemical: BENZO[B]FLUORANTHENE
Amount: 1.8
Unit: PPM

LSP Information

LSP: N/A
Name: RANSOM, STEPHEN B

Response Action Information

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 05/05/2000
RAO Class: A2
Activity Use Limitation: NONE

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/05/1999
RAO Class:
Activity Use Limitation:

Response Action Type: RAM Release Abatement Measure
Status: CSRCVD Completion Statement Received
Submittal Date: 05/05/2000
RAO Class:
Activity Use Limitation:

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 05/05/1999
RAO Class:
Activity Use Limitation:

RAO Information

Class: A2
Method: 1
GW Category: 1
Soil Category: 3

Site: HYDRAULIC RELEASE
GREEN ST HUDSON MA 01749-0000

SPILLS

RTN: 2-0013521
Primary ID:
Compliance Status:
Current Status: RAO
Current Status Desc: Response Action Outcome: A site/release where a Permanent or Temporary Solution Statement (formerly RAO Statement) was submitted. This statement asserts that response actions were sufficient to achieve a level of no significant risk or at least ensure that all substantial hazards were eliminated
Current Date: 12/15/2000
RAO Class: A1
RAO Class Desc: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated
Chemical Type:
Release Type: RAO
Location Type: COMMERCIAL,RESIDNTIAL
Category: TWO HR
Initial Status Date: 10/12/2001
Notification Date: 10/12/2000
Source: PIPE,EXCAVATE
Additional Files URL: http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=2-0013521
Phase:
Phase Desc:
Office Town: HUDSON

Actions

Action: IRA
Status: APORAL
RAO Class: A1
Date: 10/12/2000
Status Description: Oral Approval of Plan or Action

Action: RNF
Status: REPORT
RAO Class: A1
Date: 12/11/2000
Status Description: Reportable Release under MGL 21E

Action: REL
Status: REPORT
RAO Class: A1
Date: 10/12/2000
Status Description: Reportable Release under MGL 21E

Action: NOR
Status: ISSUED
RAO Class: A1
Date: 12/18/2000
Status Description: Correspondence Issued

Action: RAO
Status: RAORCD
RAO Class: A1
Date: 12/15/2000
Status Description: RAO Statement Received (retired)

Chemical Information

Chemical: HYDRAULIC FLUID
Amount: 30
Unit: GAL

LSP Information

LSP: 8959
Name: DELTUFO, ANTHONY M

Response Action Information

Response Action Type: IRA Immediate Response Action
Status: APORAL Oral Approval of Plan or Action
Submittal Date: 10/12/2000
RAO Class:
Activity Use Limitation:

Response Action Type: RNF Release Notification Form Received
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 12/11/2000
RAO Class:
Activity Use Limitation:

Response Action Type: RAO Response Action Outcome - RAO
Status: RAORCD RAO Statement Received
Submittal Date: 12/15/2000
RAO Class: A1
Activity Use Limitation: NONE

Response Action Type: REL Potential Release or Threat of Release
Status: REPORT Reportable Release or Threat of Release
Submittal Date: 10/12/2000
RAO Class:
Activity Use Limitation:

RAO Information

Class: A1
Method: N
GW Category: 2
Soil Category: 3

Location Information

Location: COMMERCIAL

Location: RESIDENTIAL

Source Information

Source: PIPE

Source: EXCAVATE

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Facility Response Plan:

FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Mar 26, 2020

National Priority List:

NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Sep 22, 2020

National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Sep 22, 2020

Deleted NPL:

DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Government Publication Date: Sep 22, 2020

SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Aug 26, 2020

Inventory of Open Dumps, June 1985:

ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

[SEMS ARCHIVE](#)

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Aug 26, 2020

Comprehensive Environmental Response, Compensation and Liability Information System -

[CERCLIS](#)

CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jul 27, 2020

RCRA non-CORRACTS TSD Facilities:

[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Jul 27, 2020

RCRA Generator List:

[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jul 27, 2020

RCRA Small Quantity Generators List:

[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jul 27, 2020

RCRA Conditionally Exempt and Very Small Quantity Generators List:

[RCRA CESQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt and Very Small Quantity Generators (VSQG and CESQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG and CESQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jul 27, 2020

RCRA Non-Generators:

[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jul 27, 2020

Federal Engineering Controls-ECs:

[FED ENG](#)

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 26, 2020

Federal Institutional Controls- ICs:

[FED INST](#)

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Aug 26, 2020

Emergency Response Notification System:

[ERNS 1982 TO 1986](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

[ERNS 1987 TO 1989](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

[ERNS](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 19, 2020

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

[FED BROWNFIELDS](#)

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Sep 3, 2019

FEMA Underground Storage Tank Listing:

[FEMA UST](#)

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Petroleum Refineries:

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals:

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property:

[SEMS LIEN](#)

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Aug 26, 2020

Superfund Decision Documents:

[SUPERFUND ROD](#)

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Sep 22, 2020

State

Waste Site Cleanup Notifications/Reportable Releases:

[RELEASE](#)

This database contains information on all releases of oil and hazardous materials that have been reported to the Massachusetts Department of Environmental Protection (MassDEP).

Government Publication Date: Sep 8, 2020

Delisted Waste Site Cleanup Notification Sites:

[DELISTED REL](#)

List of sites which no longer appear on the Waste Site Cleanup Notifications Site List published by the Massachusetts Department of Environmental Protection (MassDEP). Sites no longer appear on the public site list when, after investigation, it is determined that the release was below reporting thresholds, or that the site is not classified as a 21E site.

Government Publication Date: Sep 8, 2020

Solid Waste Facilities:

[SWF/LF](#)

The Solid Waste Facility Master List provides information on landfills/dumping grounds, handling/transfer facilities, and combustion facilities. These solid waste operations in Massachusetts require site assignment and permitting by MassDEP's Bureau of Waste Prevention under 310 CMR 16.000 & 19.000.

Government Publication Date: Jan 14, 2020

Tank Related Leaks and Spills:

LST

Records of Tank Related Leaks and Spills made available by the Massachusetts Department of Environmental Protection (DEP). When a release occurs from a storage tank or system, the owner/operator must notify the DEP. This database contains a listing of releases and spills from tanks and/or tank systems both above and underground.

Government Publication Date: Sep 8, 2017

Leaking Underground Storage Tanks (LUST):

LUST

Sites that are within the Waste Site Cleanup Notifications/Reportable Releases Database that have a UST listed as source.

Government Publication Date: Sep 8, 2020

Leaking Aboveground Storage Tanks (LAST):

LAST

Sites that are within the Waste Site Cleanup Notifications/Reportable Releases Database that have a AST listed as source.

Government Publication Date: Sep 8, 2020

Delisted Leaking Storage Tanks:

DELISTED LST

This database contains a list of leaking storage tank sites that were removed from the Massachusetts Department of Environmental Protection (DEP) above and underground tank system.

Government Publication Date: Sep 8, 2020

Historic Leaking Underground Storage Tanks that occurred prior to October 1st 1993:

HIST LUST

List of leaking underground storage tank incidents from the Spills Database used by the Waste Site Cleanup program at the Massachusetts Department of Environmental Protection for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the databases described above. Note that these files are considered a permanent version of the Spills Database and are unlikely to be updated.

Government Publication Date: Prior to Oct 1, 1993

Historic Leaking Aboveground Storage Tanks that occurred prior to October 1st 1993:

HIST LAST

List of leaking aboveground storage tank incidents from the Spills Database used by the Waste Site Cleanup program at the Massachusetts Department of Environmental Protection for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the databases described above. Note that these files are considered a permanent version of the Spills Database and are unlikely to be updated.

Government Publication Date: Prior to Oct 1, 1993

Underground Storage Tanks (UST):

UST

The Underground Storage Tank (UST) Program is a major component of the Massachusetts groundwater resource protection effort. This is a listing of all underground storage tanks registered in Massachusetts.

Government Publication Date: Sep 30, 2020

Aboveground Storage Tanks:

AST

List of Aboveground Storage Tanks registered with the MA Department of Fire Services. Addresses provided by DFS are owner addresses, which may or may not coincide with the physical location of the tanks.

Government Publication Date: Aug 4, 2020

Delisted Storage Tanks:

DELISTED STORAGE TANK

This database contains a list of storage tank sites that were removed from the Massachusetts Department of Environmental Protection storage tank database.

Government Publication Date: Sep 30, 2020

Sites with Activity and Use Limitations:

AUL

The approximate location of oil or hazardous material release/disposal sites where an AUL has been filed. An AUL provides notice of the presence of oil and/or hazardous material contamination remaining at the location after a cleanup has been conducted pursuant to Chapter 21E and the MCP. The AUL is a legal document that identifies activities and uses of the property that may and may not occur, as well as the property owner's obligation and maintenance conditions that must be followed to ensure the safe use of the property. The complete AUL is filed at the County Registry of Deeds office for the respective City/Town.

Government Publication Date: Sep 8, 2020

Completed Brownfields Covenants:

BROWNFIELDS COV

List of sites with Completed Brownfields Covenants made available by the Massachusetts Department of Environmental Protection (MassDEP). Under Massachusetts law, M.G.L. c. 21E provides the Attorney General's Office with the authority to enter into Brownfields Covenant Not to Sue Agreements for brownfields sites not addressed by the automatic liability protections.

Government Publication Date: Jun 5, 2017

Massachusetts Brownfield Tracking:

BROWNFIELDS

List of reported releases at properties that meet the unofficial definition of a Brownfield site in Massachusetts, described as a real property whose redevelopment may be complicated by actual or perceived contamination by oil or hazardous materials. These properties are typically abandoned or for sale or lease and have been used for commercial or industrial purposes. Although the presence of contamination - or the fear of potential contamination - and the desire to redevelop/re-use a property is all it takes to be considered a candidate for brownfield incentives, a property's inclusion on this list does not automatically qualify it as a "Brownfield" site under other regulations, including Massachusetts Department of Energy Resources (DOER) regulations.

Government Publication Date: Dec 31, 2018

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

INDIAN LUST

Leaking Underground Storage Tanks (LUSTs) in Region 1. There are no LUST records in Massachusetts at this time.

Government Publication Date: Oct 14, 2017

Underground Storage Tanks (USTs) on Indian Lands:

INDIAN UST

Underground Storage Tanks (USTs) on Tribal/Indian Lands in Region. There are no UST records in Massachusetts at this time.

Government Publication Date: Oct 14, 2017

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

PFOA/PFOS Contaminated Sites:

PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Jul 7, 2020

Facility Registry Service/Facility Index:

FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Jun 15, 2020

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Feb 19, 2020

Perfluorinated Alkyl Substances (PFAS) Releases:

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Feb 19, 2020

Perfluorinated Alkyl Substances (PFAS) Water Quality:

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

Hazardous Materials Information Reporting System:

[HMIRS](#)

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Jan 8, 2020

National Clandestine Drug Labs:

[NCDL](#)

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act:

[TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:

[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Jul 29, 2020

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Nov 18, 2016

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jan 20, 2020

Delisted Drycleaner Facilities:

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jan 20, 2020

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Jan 28, 2020

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: Aug 5, 2020

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: May 1, 2020

Alternative Fueling Stations:

[ALT FUELS](#)

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Sep 24, 2020

Registered Pesticide Establishments:

[SSTS](#)

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 31, 2020

Polychlorinated Biphenyl (PCB) Notifiers:

[PCB](#)

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Oct 9, 2019

State

Oil Spill Program:

[SPILLS](#)

The Massachusetts' Energy and Environmental Affairs' Department of Environmental Protection (DEP) manages The Bureau of Waste Site Cleanup and is responsible with ensuring immediate and effective response to environmental emergencies, such as oil spills, as well as timely assessment and cleanup of oil and hazardous waste disposal sites by parties responsible for them.

Government Publication Date: Nov 27, 2017

Historic Spills that occurred prior to October 1st 1993:

[HIS SPILLS](#)

List of spill incidents from the Spills Database used by the Waste Site Cleanup program at the Massachusetts Department of Environmental Protection for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the databases described above. Note that these files are considered a permanent version of the Spills Database and are unlikely to be updated.

Government Publication Date: Prior to Oct 1, 1993

Per- and Polyfluoroalkyl Substances (PFAS):

[PFAS](#)

A list of releases reported to the Massachusetts Department of Environmental Protection (MassDEP) where the chemical is in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Sep 8, 2020

Tier Classified Oil and/or Hazardous Material Sites:

[OIL & HAZ MAT](#)

List of approximate locations of oil and/or hazardous material disposal sites that have been (1) reported and (2) Tier Classified under M.G.L. Chapter 21E and the Massachusetts Contingency Plan (MCP). This listing has been made available by Massachusetts Department of Environmental Protection (MassDEP).

Government Publication Date: Apr 6, 2020

Hazardous Waste and Waste Oil Generators:

[GEN](#)

List of permanent generator identification numbers for Massachusetts generators of hazardous waste and waste oil that have registered with or notified the Massachusetts Department of Environmental Protection (MassDEP) of their hazardous waste activities as defined in 310 CMR 30.00, the Massachusetts Hazardous Waste Regulations.

Government Publication Date: Sep 25, 2020

Asbestos Projects:

[ASBESTOS PROJECT](#)

A list of asbestos projects made available by the Massachusetts Department of Environmental Protection (MassDEP). Includes asbestos notifications for any project involving asbestos abatement, removal, or disposal, and construction and demolition (C&D) notifications for any C&D project, except in a residential building with fewer than 20 units.

Government Publication Date: Sep 9, 2020

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX C

Pre-characterization Sampling Locations



Summary of Properties of Concern
MBTA ROW
Transmission Line Project
Sudbury to Hudson, Massachusetts

Release Tracking Number (RTN)	Town	Address	Location Aid	Initial Notification Date	Current Regulatory Status	RAO Class	Contaminants	Proximity To Project	Sampling Recommended per MassDEP Rail Trail BMP	Segment
-	HUDSON	7 LEWIS STREET	ORCHARDS	-	-	-	Possible Pesticide Use	Abutting	No	Segment 1
-	HUDSON	CHESTNUT STREET	GLEASONDALE STATION	-	-	-	Coal Slag	On-Site	Yes	
-	HUDSON	CHESTNUT STREET	FORMER GRAVEL PITS	-	-	-	Hazardous Material	Abutting	No	
-	HUDSON	556 MAIN STREET	DRUM STORAGE	-	-	-	Oil and Hazardous Material	Abutting	Yes	Segment 2
-	HUDSON	556 MAIN STREET	CHEMICAL STORAGE	-	-	-	Oil and Hazardous Material	Abutting	Yes	
-	HUDSON	556 MAIN STREET	CONCRETE PLANT	-	-	-	Oil and Hazardous Material	Abutting	Yes	
2-68	HUDSON	555 MAIN STREET	ARROW AUTOMOTIVE IND INC	1/15/1987	RAO	C1	Oil	Abutting*	Yes	
2-16560	HUDSON	555 MAIN STREET	HUDSON MAIN 555 LLC	1/24/2007	RTN CLOSED	N/A	Hazardous Material	Abutting*	Yes	
-	HUDSON	566 MAIN STREET	AUTOMOTIVE SCRAP YARD	-	-	-	Oil and Hazardous Material	Abutting	Yes	
2-275	HUDSON	560 MAIN ST	M&M DRILLING KANE PERKINS	7/15/1987	RAO	A2	Oil	On-Site	Yes	
-	HUDSON	560 MAIN STREET	COMMERCIAL PRINTING	-	-	-	Hazardous Material	Abutting	Yes	
-	HUDSON	567 MAIN STREET	PLASTICS MANUFACTURER	-	-	-	Hazardous Material	Abutting	Yes	
2-10785	HUDSON	571 MAIN ST	SOUTH SIDE MAIN ST WEST OF PARMENTER RD	5/18/1995	RAO	B1	Hazardous Material	Abutting*	No	
2-204	HUDSON	577 MAIN ST	JAMES GORIN REALTY TRUST	1/15/1987	WCSPRM	N/A	Oil	Abutting*	No	
-	HUDSON	PARMENTER RD	ORDWAY STATION	-	-	-	Hazardous Material	On-Site	No	
-	HUDSON	43 PARMENTER RD	TOOL AND MACHINING COMPANY	-	-	-	Oil and Hazardous Material	Abutting	Yes	
2-248	HUDSON	51 PARMENTER RD	BOYD COATING RESEARCH CO	5/7/1987	RAO	B1	Oil	Abutting*	Yes	
2-722	STOW	FT DEVONS	FORT DEVENS TRAINING ANNEX	1/15/1990	ADEQUATE REG	N/A	Oil	On-site	Yes	
-	SUDBURY	DUTTON RD	WAYSIDE INN STATION	-	-	-	Hazardous Material	On-Site	No	
3-24573	SUDBURY	33 BULKLEY RD	FORMER ROD & GUN CLUB	1/19/2005	RAO	A1	Hazardous Material	On-site	No	Segment 4
3-27243	SUDBURY	528 BOSTON POST RD	NO LOCATION AID	11/6/2007	RAO	C1	Hazardous Material	Abutting*	Yes	
3-3037	SUDBURY	528 BOSTON POST RD	RAYTHEON COMPANY	4/15/1990	PENNFA	N/A	Oil and Hazardous Material	Abutting*	Yes	
-	SUDBURY	526-528 BOSTON POST ROAD	RAYTHEON COMPANY	-	-	-	Hazardous Material	Abutting	Yes	
3-74	SUDBURY	33 UNION AVE	COATINGS ENGINEERING	2/11/1986	RAO	C2	Oil and Hazardous Material	On-site*	Yes	
-	SUDBURY	SOUTH SUDBURY STATION	97 UNION ROAD	-	-	-	Hazardous Material	On-Site	No	
3-2640	SUDBURY	39 UNION AVE	MULLEN LUMBER	1/15/1990	RAO	C1	Hazardous Material	On-site	Yes	
-	SUDBURY	46 UNION AVENUE	FORMER UST	-	-	-	Oil	Abutting	No	
-	SUDBURY	38-40 STATION ROAD	AUTOMOTIVE REPAIR	-	-	-	Oil	Abutting	Yes	
3-15581	SUDBURY	BOSTON POST RD (RTE 20)	CONCORD ST	9/29/1997	RAO	B1	Hazardous Material	Abutting*	No	
-	SUDBURY	46 MAPLE AVENUE	SEMS DATABASE	-	-	-	Hazardous Material	Abutting	No	
-	SUDBURY	ROUTE 20 AT LANDHAM ROAD	SUDBURY AUTOMOTIVE	-	-	-	Oil and Hazardous Material	Abutting	Yes	
-	SUDBURY	LANDHAM ROAD	EAST SUDBURY STATION	-	-	-	Hazardous Material	On-Site	No	
3-33240	SUDBURY	209 BOSTON POST RD	GASOLINE SERVICE STATION	11/3/2015	TIER II	N/A	Oil	Abutting*	Yes	
-	SUDBURY	163 BOSTON POST ROAD	ELECTRICAL SUBSTATION	-	-	-	Oil and Hazardous Material	Abutting	No	

TOTAL NUMBER OF SITES 34

Notes: N/A - Not Applicable
 PENNFA - Pending DEP No Further Action
 RAO - Response Action Outcome
 RTN - Release Tracking Number
 UNCLASSIFIED - New Site Pending Initial Response Actions
 WCSPRM - Waiver Completion Statement Submitted
 * - Disposal site boundary not provided in available reports and has been approximated.

	Active MassDEP Disposal Site
	MassDEP Disposal Site: Regulatory Closure Achieved
	Other Environmental Concerns Identified During Assessment

The table above is a summary of disposal sites where a documented release of oil and/or hazardous materials has been reported. The information is taken from the MassDEP Bureau of Waste Site Cleanup online database and may be subject to inaccuracies. Other environmental concerns such as nearby underground storage tanks, environmentally-sensitive industries (gas stations, drycleaners, automotive repair), hazardous waste generators, etc. may have the potential to impact the Project. In addition, the Project is located partially within a former railroad right-of-way, which are typically sources of oil and/or hazardous materials due to pesticide application associated with vegetation management, train exhaust, non-native fill used to bring tracks to grade, and other vehicle releases.

APPENDIX D

Geotechnical Investigation Report



December 7, 2018

Ms. Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472
Phone: (617) 607-2956
Fax: (617) 924-2286
E-mail: PCornell@VHB.com

Re: **Geotechnical Report**
Proposed Transmission Power Line Borings
Sudbury, Massachusetts
LGCI Project No. 1836

Dear Ms. Cornell:

Lahlaf Geotechnical Consulting, Inc. (LGCI) has completed a geotechnical study for the proposed Transmission Power Line Borings in Sudbury, Massachusetts. We are submitting this report electronically, please notify us if you need a hard copy.

The soil samples from our explorations are currently stored at LGCI for further analysis, if requested. Unless notified otherwise, we will dispose of the soil samples after three months.

Thank you for choosing LGCI as your geotechnical engineer.

Very truly yours,

Lahlaf Geotechnical Consulting, Inc.

Jennifer F. Todd, P.E.
Geotechnical Engineer

Abdelmadjid M. Lahlaf, Ph.D., P.E.
Principal Engineer



LGCI

Lahlaf Geotechnical Consulting, Inc.

**GEOTECHNICAL REPORT
PROPOSED TRANSMISSION POWER LINE BORINGS
SUDBURY, MASSACHUSETTS**

LGCI Project No. 1836

December 7, 2018

Prepared for:

VANASSE HANGEN BRUSTLIN, INC.

101 Walnut Street

Watertown, MA 02472

Phone: (617) 607-2956

Fax: (617) 924-2286

**GEOTECHNICAL REPORT
PROPOSED TRANSMISSION POWER LINE BORINGS
SUDBURY, MASSACHUSETTS**

LGCI Project No. 1836
December 7, 2018

Prepared for:

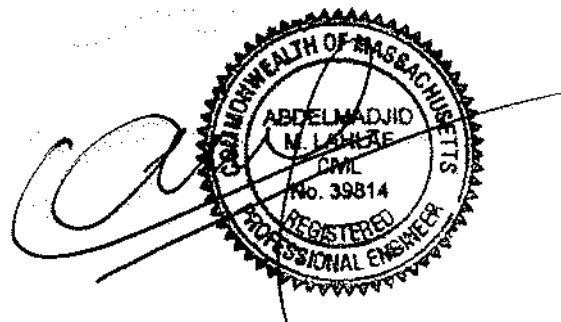
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Abdelmadjid M. Lahlaf, Ph.D., P.E.
Principal Engineer

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**Geotechnical Report
Proposed Transmission Power Line Borings
Sudbury, Massachusetts
LGCI Project No. 1836**

1. PROJECT INFORMATION

1.1 Project Authorization

This report presents the results of subsurface explorations and a geotechnical evaluation performed by Lahlaf Geotechnical Consulting, Inc. (LGCI) for the proposed transmission power line in Sudbury, Massachusetts. We performed our services in general accordance with our proposal No. 16006-Rev. 3 dated January 23, 2016 and revised June 19, 2018.

1.2 Purpose and Scope of Services

The purpose of this geotechnical study was to obtain subsurface information at the site and to provide foundation design and construction recommendations for the utility vaults along the proposed transmission power line. LGCI performed the following services:

- Provided a geotechnical senior and field engineer to attend a site meeting with VHB representatives and the drilling subcontractor's crew on May 22, 2018.
- Provided a geotechnical field engineer at the site. The engineer coordinated and observed the borings, described the soil samples, and prepared field logs.
- Submitted six (6) stream bed samples for laboratory testing.
- Performed one (1) borehole permeability test.
- Prepared this geotechnical report containing the results of our subsurface explorations and our recommendations for foundation design and construction related to the proposed transmission power line.

A report presenting the results of our geotechnical services for the Hudson portion of this project was submitted on August 16, 2018. That report was reviewed and comments from Vanasse Hangen Brustlin, Inc. (VHB) were addressed in a revised report submitted on September 14, 2018.

This report presents the results of our geotechnical services for the Sudbury portion of this project.

Our scope did not include attending meetings, preparing specifications, reviewing contract documents and shop drawings, or providing construction services. LGCI would be pleased to perform these services when needed. Recommendations for stormwater management, erosion control, pavement design, subgrade preparation for roadways and other paved areas, slope stability analyses, and detailed cost or quantity estimates are not included in our scope of work.



**Geotechnical Report
Proposed Transmission Power Line Borings
Sudbury, Massachusetts
LGCI Project No. 1836**

Our scope does not include performing environmental services for this project. LGCI did not perform an environmental assessment to evaluate the presence or absence of wetlands or analytical testing for hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below this site, or mold in the soil or any structure at this site. Any statement about the color, odor, or the presence of suspicious materials included in our boring logs or report were made by LGCI for information only and to support our geotechnical services. No environmental recommendations and/or opinions are included in this report.

1.3 Site Description

Our understanding of the existing conditions is based on field observations, our discussions with VHB, and on the following drawing:

- “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” (NOI Plans) prepared by VHB and dated February 5, 2018.

The site extends along an abandoned Massachusetts Bay Transit Authority (MBTA) railroad. The abandoned railroad extends along the MBTA right-of-way (ROW) through the town of Sudbury. Sections of the abandoned railroad tracks are built on an embankment, other sections are below the surrounding ground surface, and a few sections are at grade with the surrounding ground surface. The embankment is typically about 2 to 6 feet high, 10 feet to 25 feet wide at the top, and 30 to 40 feet wide at the bottom. In a few areas, the sides of the embankment are part of a slope that is up to about 20 feet tall and continues out beyond the MBTA ROW. The sections of the abandoned railroad tracks below the surrounding ground surface were between about 2 feet and 6 feet below the surrounding ground surface.

The abandoned railroad extends through wooded areas and wetlands. The abandoned railroad crosses the Hop Brook over an existing steel bridge. Private properties border the MBTA ROW on either side. The railroad intersects with Dutton Road, Horse Pond Road, Union Avenue, Boston Post Road, and Landham Road. Figure 1 shows the approximate extent of the project site.

The ground surface elevations of this portion of the project range between El. 200 on the western side and El. 135 on the eastern side, with a local low of El. 124 near the easternmost crossing of Hop Brook.

1.4 Project Description

Our understanding of the proposed transmission power line is based on our discussions with VHB, the NOI Plans listed in Section 1.3, and the following drawings:



**Geotechnical Report
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Sudbury, Massachusetts
LGCI Project No. 1836**

- “Line 1151 South End Glenbrook, 115-kV Underground Transmission Line, Splice Vault Detail, Stamford, Connecticut,” prepared by Northeast Utilities Service Co. and dated May 10, 2013.
- “Cross Sections, Sudbury Hudson Transmission Line Reliability Project, Hudson, Stow, Marlborough, & Sudbury, Massachusetts,” (Cross Sections) prepared by VHB for Eversource Energy and dated July 2, 2018.
- “Typical Sections, Sudbury Hudson Transmission Line Reliability Project, Hudson, Stow, Marlborough, & Sudbury, Massachusetts,” (Typical Sections) prepared by VHB for Eversource Energy and dated July 2, 2018.

We understand that Eversource Energy (Eversource) engaged VHB to coordinate and observe a subsurface exploration for its proposed transmission power line. The transmission power line will be a 115-kV underground transmission power line connecting a substation in Hudson to a substation in Sudbury and will extend along a proposed bike path that will be constructed along the abandoned railroad bed.

We understand that the construction of the proposed transmission power line will include twenty-eight (28) vaults, three (3) bridges, and two (2) retaining walls as follows:

- Fourteen (14) vaults in Hudson and fourteen (14) vaults in Sudbury;
- Two (2) bridges (Chestnut Street Bridge and Fort Meadow Brook Bridge) in Hudson, and one (1) bridge (Hop Brook Bridge No. 127) in Sudbury.
- One (1) retaining wall in Hudson and Stow and one (1) retaining wall in Sudbury.

This report focuses on the portion of the proposed transmission power line in Sudbury. Recommendations for the portion of the line in Hudson and Stow were contained in a separate report listed in Section 1.2.

The Sudbury portion of the transmission power line extends approximately 4.5 miles. The proposed transmission power line will be installed within a trench that will generally extend to depths of about 5 feet beneath the ground surface. We understand that the proposed transmission power line will be encased in concrete.

We understand that the proposed vaults will be spaced 1,500 to 1,900 feet apart. We also understand that the proposed vaults will have a length of 24 feet, a width of 8 feet, and a height of 8 feet. VHB indicated to us that the vaults will likely have a wall thickness of 6 inches. The vaults will be designed with two (2) 3-foot manholes per vault. The vaults are generally placed at a depth of 11 feet. This is to provide 2 feet between the top of the vault and the proposed finished grade for manhole brick work.

Based on the Cross Sections, the proposed retaining wall will extend from about Sta. 724+00 to Sta. 735+00, i.e., and will be about 1100 feet long. The current design includes sheet piles for



**Geotechnical Report
Proposed Transmission Power Line Borings
Sudbury, Massachusetts
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the proposed wall with a concrete cap on top. Information about the height of the proposed retaining wall was not available at the time of this report.

1.5 Elevation Datum

We understand that elevations shown in the NOI Plans are referenced with respect to the North American Vertical Datum (NAVD) of 1988 and are in feet.



2. SITE AND SUBSURFACE CONDITIONS

2.1 Surficial Geology


LGCI reviewed the surficial geological map titled: “Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts,” compiled by Bryon D. Stone and Janet R. Stone for U.S. Geological Survey, Open-File report (2006).

The geologic map indicates that a variety of surficial deposits exist along the alignment of the proposed power line. The deposits covering the most area, as shown on the geologic map, are coarse deposits consisting of a mixture of gravel- and sand-sized material. The deposits covering the next largest area shown on the geologic map are fine deposits consisting of very fine sand, silt, and clay occurring in well sorted layers. Also present in the general vicinity of the site, are swamp deposits, till, floodplain alluvium, artificial fill, and bedrock outcrops. The surficial geologic maps of the site are shown in Figures 2A and 2B.

2.2 LGCI’s Borings

VHB engaged Geosearch, Inc. (Geosearch) of Sterling, Massachusetts to advance forty (40) borings for the Sudbury portion of the project between September 5 and November 14, 2018 as follows:

- Two (2) borings (B-BB-5 and B-BB-6) for the proposed bridge, the results of which are included in a separate report;
- Five (5) borings (B-GB-17 to B-GB-21) for the proposed retaining wall; and
- Thirty-three (33) borings, B-28 to B-42, B-51, B-GB-1 to B-GB-3, B-GB-5, and B-MP-27 to B-MP-39, for the proposed transmission power line.

The bridge borings, B-BB-5 and B-BB-6, extended to depths of 54 and 51 feet beneath the ground surface respectively. The retaining wall borings, B-GB-17 to B-GB-21, extended  depths ranging between 20 and 23 feet beneath the ground surface. The power line borings, B-28 to B-42, B-51, B-GB-1 to B-GB-3, B-GB-5, and B-MP-27 to B-MP-39, extended to depths ranging between 2.5 and 17 feet beneath the ground surface. An LGCI engineer observed and logged the borings in the field. A representative from VHB was on site to collect soil samples from the borings along the proposed transmission power line for laboratory testing, including thermal resistivity, oil and/or hazardous materials, proctor, and grain-size analysis. The results of the tests performed by VHB are not included in our report.

The borings were advanced in grass areas along the abandoned MBTA railroad and were advanced with a CME 55 LC rubber track ATV rig by employing 4 ¼-inch hollow stem augers, except for the bridge borings, B-BB-5 and B-BB-6, which were advanced with a 3- and 4-inch casing using drive and wash techniques. Boring B-39, where a borehole permeability test was performed, was also advanced with a 3-inch casing using drive and wash techniques.



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The drillers performed Standard Penetration Tests (SPT) and obtained split spoon samples with an automatic hammer typically at depth intervals of 2 feet or 5 feet, as noted on the boring logs, in general accordance with ASTM D-1586. We understand that the samples will be transmitted to VHB. Unless notified otherwise, we will dispose of the soil samples after three months.

Figures 3A to 3Z, and 3AA to 3AC show the boring locations, and Appendix A contains LGCI's boring logs. The ground surface elevations noted on the boring logs were interpolated to the nearest foot from the NOI Plans.

2.3 Subsurface Conditions

2.3.1 General

The subsurface description in this report is based on a limited number of borings and is intended to highlight the major soil strata encountered during our borings. The subsurface conditions are known only at the actual boring locations. Variations may occur and should be expected between boring locations. The boring logs represent conditions that we observed at the time of our explorations and were edited, as appropriate, based on inspection of the soil samples in the laboratory. The strata boundaries shown in our boring logs are based on our interpretations and the actual transition may be gradual. Graphic soil symbols are for illustration only.

Our subsurface descriptions were broken down into two sections: proposed transmission power line borings and retaining wall borings.

2.3.2 Proposed Transmission Power Line Borings

This section describes the subsurface conditions encountered in the borings along or near the alignment of the proposed transmission power line, including borings B-28 to B-42, B-51, B-GB-1 to B-GB-3, B-GB-5, and B-MP-27 to B-MP-39.

The soil strata encountered in the borings were as follows, starting at the ground surface:

Surficial Organic Soil – A surficial layer of forest mat and organic topsoil was encountered in borings B-28 to B-34, B-37 to B-39, B-41 to B-42, B-MP-27 to B-MP-39, and B-GB-5. This layer generally consisted of silty sand with organic fines, roots, leaves, grass, and wood. This layer had a thickness ranging between 0.1 and 2 feet but was generally less than 0.5 feet thick.

Fill – A layer of fill was encountered underneath the surficial organic layer, except in borings B-30 to B-32, and B-MP-27 to B-MP-29. The fill extended to depths ranging up to 11 feet. Borings B-37, B-38, and B-MP-37 terminated in the fill at depths of 10, 16, and 10 feet, beneath the ground surface, respectively.



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The fill was mostly described as silty sand and less frequently as poorly graded sand or well graded sand. There were three (3) samples in boring B-MP-34 that were described as silty gravel or poorly graded gravel. One (1) sample in boring B-51 was described as silt. The fines content in the fill ranged up to 45 percent, but generally ranged between 5 and 30 percent. The gravel content in the fill ranged up to 40 percent, but generally ranged between 5 and 15 percent. The fill contained traces of organic fines, coal ash, roots, coal, and wood.

The Standard Penetration Test (SPT) N-values in this layer ranged between 3 and greater than 120 blows per foot (bpf), with most values lower than 20 bpf indicating very loose to medium dense material.

Buried Organic Soil and Swamp Deposits – A layer of buried organic soil and swamp deposits was encountered beneath the fill in borings B-GB-5, B-GB-18, B-GB-20, B-MP-32, B-MP-36 and extended to depths of up to 11.1 feet beneath the ground surface. The buried organics contained fibrous peat, organic fines, and roots.

Sand – A layer of sand was encountered beneath the surficial organic soil, fill, or buried organic soil in all the borings and extended to the boring termination depths except in borings B-36, B-37, B-38, and B-MP-37. The sand layer was mostly described as silty sand and less frequently as poorly graded sand. The sand layer also contained samples described as well graded sand, silty gravel, and silt. The fines content in the sand ranged up to 45 percent, but generally ranged between 5 and 35 percent. The gravel content in the sand ranged up to 35 percent, but generally ranged between 5 and 15 percent.

The SPT N-values in the sand ranged between 6 and greater than 120 bpf, with most values between 10 and 50 bpf indicating medium dense to dense sand.

Bedrock – Bedrock was confirmed by using coring techniques in boring B-36. The top of the bedrock was at a depth of 6.0 feet beneath the ground surface. The bedrock was described as hard, slightly weathered, slightly fractured, fine-grained, gray with black mottles Granite. The rock recovery values ranged between 61.1 and 87.5 percent and the rock quality designation (RQD) values ranged between 72.7 and 85.7 percent.

2.3.3 Proposed Retaining Wall Borings

This section describes the subsurface conditions encountered in the borings along or near the alignment of the proposed retaining wall, including borings B-GB-17 to B-GB-21.

The soil strata encountered within the borings were as follows, starting at the ground surface:

Forest Mat – A layer of forest mat was encountered at the ground surface of all five (5) borings. The forest mat thickness ranged between 1 and 4 inches.



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Fill – A layer of fill was encountered beneath the forest mat in all the borings advanced along or near the alignment of the proposed retaining wall. The fill extended to depths ranging between 6.4 and 12.0 feet beneath the ground surface. The fill was mostly described as silty sand. One (1) sample was described as well graded sand with silt and one (1) sample was described as silt. The fines content in the fill ranged between 5 and 35 percent. The gravel content in the fill ranged between 5 and 30 percent. The fill contained traces of angular stone fragments, organic fines, coal ash, coal, and roots.

The SPT N-values of the fill ranged between 5 and 106 bpf, with most values lower than 24 bpf, indicating loose to medium dense material. The relatively high SPT N-Values recorded in the fill may be caused by cobbles and boulders in the fill and may not represent the true density.

Swamp Deposits – A layer of swamp deposits was encountered beneath the fill in borings B-GB-18 and B-GB-20. The buried organics extended to depths ranging between 10 and 11.1 feet beneath the ground surface. The buried organics consisted of silty sand with traces of organic fines, peat fibers, and roots. Two (2) samples from boring B-GB-18 were described as organic silt.

Sand – A layer of sand was encountered beneath the fill or buried organics in all borings advanced near the alignment of the proposed retaining wall. The sand layer extended to the termination depth of the borings except in boring B-GB-20. The sand was mostly described as silty sand. Two (2) samples were described as well graded sand with silt, two (2) samples were described as silt, and one (1) sample was described as silty gravel. The fines content in the sand ranged between 15 percent and 45 percent. The gravel content in the sand ranged between 15 and 40.

The SPT N-values in the sand ranged between 4 and over 120 bpf, with most values between 14 and 50 bpf, indicating mostly medium dense to dense sand.

Bedrock – Bedrock was confirmed by using coring techniques in boring B-GB-20. The top of the bedrock was at a depth of 18.0 feet beneath the ground surface. The bedrock was described as hard, slightly weathered, slightly fractured, fine-grained, gray with white and green mottles Granite. The rock recovery value was 100 percent and the RQD value was 85 percent.

2.4 Groundwater

2.4.1 General

The groundwater data obtained during drilling and reported in this report is based on observations made during or shortly after completion of our explorations and may not represent the actual groundwater levels, as additional time may be required for the



groundwater to stabilize. The groundwater levels presented in this report only represent the conditions encountered at the time and location of our explorations. Seasonal fluctuation should be anticipated.

Please note that our groundwater measurements were performed during the period between September and November 2018. Seasonal fluctuation should be anticipated. The groundwater levels are anticipated to be higher during the months of the wet season in early spring.

2.4.2 Proposed Transmission Power Line

Groundwater was encountered in all the borings advanced along or near the alignment of the proposed transmission power line, except in borings B-32, B-34, B-35, B-37, B-GB-1 to B-GB-3 and B-MP-28. Groundwater was encountered at depths of up to 15 feet beneath the ground surface, but generally ranged between 4 and 10 feet beneath ground surface.

2.4.3 Proposed Retaining Wall

Groundwater was encountered in all the borings along or near the alignment of the proposed retaining wall at depths of up to 6.8 feet beneath the ground surface, but generally ranged between 3.5 and 6.0 feet beneath ground surface.

2.5 Borehole Permeability Tests

LGCI performed one (1) falling head borehole permeability test in boring B-39. The test was performed by filling the drill casing with water and measuring the drop in water level inside the casing. The test was performed at a depth range of 12 feet to 14 feet below ground surface.

The results of the borehole permeability test is included in Appendix C. The results indicate that permeability of the soil at a depth of 12 to 14 feet in boring B-39 is about 2.7×10^{-4} cm/sec.

2.6 Laboratory Test Data

LGCI submitted six (6) stream bed samples from Hop Brook near the northern and southern sides of the existing steel bridge. The stream bed samples were obtained either in the middle of the stream or near the shore, and approximately 5 to 10 inches underwater. The results are summarized in the table below. The laboratory data sheets are included in Appendix B.



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Results of Grain-size Analyses

Location	Sample No.	Stratum	Sample depth (ft.)	Percent Gravel	Percent Sand	Percent Fines
Southern Side of Existing Hop Brook bridge, Western Bank	S1	Topsoil	0.0 – 0.3	0.0	61.0	39.0
Southern Side of Existing Hop Brook Bridge, Eastern Bank	S2	Topsoil	0.0 – 0.3	20.6	60.0	19.4
Southern side of Existing Hop Brook Bridge, Middle of Stream	S3	Stream Bed	0.0 – 0.4	3.9	73.8	22.3
Southern side of Existing Hop Brook Bridge, Middle of Stream	S4	Stream Bed	0.4 – 0.9	0.0	84.8	15.2
Northern Side of Existing Hop Brook Bridge, Middle of Stream	S5	Stream Bed	0.0 – 0.4	0.0	73.7	26.3
Northern Side of Existing Hop Brook Bridge, Middle of Stream	S6	Stream Bed	0.4 – 0.9	0.5	76.9	22.6



3. EVALUATION AND RECOMMENDATIONS

3.1 General

Based on our understanding of the proposed transmission power line, our observation of the borings, and the results of our laboratory testing, there are a few issues that we would like to highlight for consideration and discussion.

- Buried organic soil was encountered in many borings. The depth to the bottom of the organic soil was generally less than 10 feet. The proposed vaults should be supported on Structural Fill placed directly on top of the natural sand. Our recommendations for bearing resistance for the proposed vaults are presented in Section 3.2.
- The sheet pile retaining wall is well suited for the subsurface conditions encountered in our borings, as it will not require the removal of the existing fill and the buried organic soil. The presence of the organic soil may result in longer sheet piles. Also, fill placed to raise the grades near the proposed retaining wall will result in settlement induced by the compression of the buried organic soil. This settlement will not affect the proposed vaults, transmission power lines, or sheet pile retaining wall. The contractor should be prepared to pre-trench to remove boulders at locations where boulders are encountered ahead of the sheet pile driving operations.
- The subsurface conditions encountered in our borings are in general suitable to support the proposed duct bank encasement of the proposed transmission power line as the trench for the proposed transmission power line will terminate in existing fill or natural soil. In a few locations, the proposed transmission power line trench will terminate in the organic soil or at the bottom of the existing fill, just above the organic soil. At these locations, we recommend over-excavating the organic soil and backfilling the trench to the bottom of the proposed transmission power line using suitable backfill. Where the organic soil is more than 2 feet from the bottom of the proposed transmission power line trench, the organic soil should not be removed. Additional recommendations for supporting the proposed transmission power line are presented in Section 4.1.
- Drill chattering was observed in several borings along the MBTA railroad. The contractor should be prepared to encounter boulders during excavation and should be prepared to remove the boulders from the site including possibly performing pre-trenching for the sheet piles.
- Rock was encountered in one of the proposed wall borings, B-GB-20 at a depth of 18 feet beneath the ground surface. We do not anticipate that the depth to rock will interfere with the proposed sheet pile walls, unless the proposed wall has heights such that the required embedment is more than 18 feet. Rock was also encountered in boring B-36. The excavation for the proposed vault and power line trench will require rock excavation at this location.



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- The existing fill along the MBTA railroad contained varying amounts of organic matter and coal. Due to the presence of coal ash, these materials will have to be pre-characterized before disposal offsite. To reduce the quantity of material to be disposed of offsite, the contractor should be prepared to segregate the inorganic portion of the existing fill and amend it as needed to improve its gradation for reuse as backfill. Our recommendations for fill materials and for reuse of onsite materials are presented in Sections 4.3 and 4.4, respectively.
- We anticipate that groundwater control will be required to construct the proposed vaults. The design and the construction sequence should be performed so as to allow for the construction of the proposed vaults in a dry excavation and to reduce the potential for uplift of the vault at the end of dewatering operations. Groundwater control will also be required along portions of the transmission power line trenches. Our recommendations for groundwater control are presented in Section 4.7.
- Foundations should be designed in accordance with the requirements of the Massachusetts State Building Code, Ninth Edition (MSBC 9th edition).

3.2 Vault Recommendations

- We recommend supporting the proposed vaults on a minimum of 12 inches of Structural Fill bearing on natural sand. In areas where the proposed transmission power line trench terminates in the buried organic soil or less than 2 feet from the top of the organic soil, the organic soil should be removed at least 2 feet beneath the bottom of the trench or to the natural sand, whichever occurs first.
- We recommend an allowable bearing pressure of 3 kips per square foot (ksf) for vaults bearing on natural sand.
- The vaults should be designed with slabs and walls thick enough such that the weight of the vault resists uplift pressure. We recommend a minimum factor of safety of 1.1 against uplift.
- We recommend that the vault walls be designed using at-rest pressure and to resist the hydrostatic pressure as described in section 3.4.

3.3 Seismic Design

In accordance with Section 1613 of MSBC 9th Edition, the seismic criteria for the site are as follows:



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Site Class:	D
Spectral Response Acceleration at short period (S_S):	0.203g
Spectral Response Acceleration at 1 sec. (S_1):	0.069g
Site Coefficient F_a (Table 1613.2.3(1)):	1.6
Site Coefficient F_v (Table 1613.2.3(2)):	2.4
Adjusted spectral response S_{MS} :	0.325 g
Adjusted spectral responses S_{M1} :	0.166g

Based on our observations of the borings, the natural soil layer at the site is not susceptible to liquefaction during a seismic event.

3.4 Lateral Pressures for Wall Design

Lateral earth pressures recommended for design of the proposed retaining wall and vault walls are provided in the section below.

We recommend using the following values for retaining wall design:

Coefficient of Active Earth Pressure, K_A :	0.31
Coefficient of Active Earth Pressure, K_P in Top 5 feet	2.0
Coefficient of Active Earth Pressure, K_P at depths greater than 5 feet:	4.1
Coefficient of At-Rest Earth Pressure, K_o :	0.50
Friction Angle between Backfill and Back of Wall, δ :	10 degrees
Total Unit Weight, γ :	120 pcf
Buoyant Unit Weight γ' :	57.4 pcf

Note: The coefficient of active pressure value is based on Coulomb's equation using an internal friction angle for the backfill, ϕ , of 30 degrees and a friction angle between the backfill and the structure, δ , of 10 degrees. The coefficients of active and at-rest earth pressure are provided for wall backfill with a horizontal surface (non-sloping backfill) on the active side for the retaining wall. The coefficient of passive earth pressure is provided for a sloping ground with a slope of 3H:1V in the top 5 feet.

- The proposed vault walls should be designed using the “at-rest” pressure coefficient.
- The length of the proposed sheet pile wall obtained using the design parameters recommended above should be increased by the thickness of the buried topsoil.
- We recommend placing free-draining material consisting of Structural Fill or crushed stone within the 3 feet immediately behind retaining walls. The sheet pile wall should be provided with weep hole near the bottom of the wall to promote drainage.
- The design of the sheet pile wall should include a traffic surcharge equivalent to 200 pounds per square foot.



3.5 Seismic Pressure

In accordance with the MSBC 9th Edition, Section 1610, a lateral earthquake force equal to $0.100 \cdot (S_s) \cdot (F_a) \cdot \gamma \cdot H^2$ should be included in the design of walls (for horizontal backfill), where S_s is the maximum considered earthquake spectral response acceleration (defined in Section 3.3), F_a is the site coefficient (defined in Section 3.3), γ is the total unit weight of the soil backfill, and H is the height of the wall.

The earthquake force should be distributed as an inverted triangle over the height of the wall. In accordance with MSBC 9th Edition, Section 1610.2, a load factor of 1.43 shall be applied to the earthquake force for wall strength design.

Temporary surcharges should not be included when designing for earthquake loads. Surcharge loads applied for extended periods of time shall be included in the total static lateral soil pressure and their earthquake lateral force shall be computed and added to the force determined above.



4. CONSTRUCTION CONSIDERATIONS

4.1 Subgrade Preparation

- Existing fill, organic soil, abandoned utilities, and other below-ground structures should be entirely removed from within an area extending at least 2 feet beyond the limits of the proposed vaults.
- The proposed vault excavations should extend to 12 inches below the proposed bottom of vaults. Should existing fill, organic soil, or other deleterious material be present at these depths, it should be removed and replaced with compacted Structural Fill to the top of the natural sand or 2 feet beneath the bottom of the proposed vault, whichever occurs first.
- The subgrade of the vaults in the natural sand, should be compacted with a dynamic vibratory compactor imparting a minimum of 10 kips of force to the subgrade.
- Should boulders be encountered at the vault subgrade, the boulders should be removed, and the resulting excavation should be backfilled with compacted Structural Fill meeting the gradation requirements in Section 4.3.
- Loose or soft soils identified during the compaction of the foundation subgrades that cannot be compacted in place should be excavated to a suitable bearing stratum as determined by the representative of LGCI. Grades should be restored by backfilling with Structural Fill.
- When crushed stone is required in the drawings or it is used for the convenience of the contractor, it should be wrapped in a geotextile fabric for separation except where introduction of the geotextile promotes sliding. A geotextile should not be placed between the bottoms of the foundations and crushed stone.
- The proposed transmission power line trench should extend to at least 12 inches beneath the bottom of the transmission power line. Where the excavation terminates in organic soil or less than 2 feet from the top of the organic soil, the excavation should be continued to the natural sand layer or 2 feet beneath the bottom of the transmission power line, whichever occurs first. The over-excavation should be backfilled with Ordinary Fill meeting the gradation requirements in Section 4.3.
- An LGCI representative should observe the exposed foundation subgrades prior to fill and concrete placement to verify that the exposed bearing materials are suitable for the design soil bearing pressure. If soft or loose pockets are encountered in the foundation excavations, the soft or loose materials that cannot be compacted in place should be removed, and the bottom of the foundation should be placed at a lower elevation on firm soil, or the resulting excavation should be backfilled with Gravel Borrow, or crushed stone wrapped in a filter fabric.



4.2 Subgrade Protection

The onsite natural sand is frost susceptible. If construction takes place during freezing weather, special measures should be taken to prevent the subgrade from freezing. Such measures should include the use of heat blankets or excavating the final six inches of soil just before pouring concrete. Soil used as backfill should be free of frozen material, as should the ground on which it is placed. Filling operations should be halted during freezing weather.

Materials with high fines content are typically difficult to handle when wet as they are sensitive to moisture content variations. Subgrade support capacities may deteriorate when such soils become wet and/or disturbed. The contractor should keep exposed subgrades properly drained and free of ponded water. Subgrades should be protected from machine and foot traffic to reduce disturbance.

4.3 Fill Materials

Structural Fill and Ordinary Fill should consist of inert, hard, durable sand and gravel, free from organic matter, clay, surface coatings and deleterious materials, and should conform to the gradation requirements shown below.

4.3.1 Structural Fill

The Structural Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Structural Fill should be compacted in maximum 9-inch loose lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of optimum moisture content.

Sieve Size	Percent Passing by Weight
3 inches	100
1 ½ inch	80 - 100
½ inch	50 - 100
No. 4	30 - 85
No. 20	15 - 60
No. 60	5 - 35
No. 200*	0 - 10

4.3.2 Ordinary Fill

Ordinary Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Ordinary Fill should be compacted in maximum 9-inch loose lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of optimum moisture content.



Sieve Size	Percent Passing by Weight
6 inches	100
1 inch	50 - 100
No. 4	20 - 100
No. 20	10 - 70
No. 60	5 - 45
No. 200	0 - 20

4.4 Reuse of Onsite Materials

Based on our field observations and the results of the grain-size analyses, we do not anticipate that the site soils will meet the gradation requirements of Structural Fill. Some of the existing fill meets the gradation requirements of Ordinary Fill. Some of the poorly graded sand that could be reused as Ordinary Fill may become difficult to compact, due to the fines content, when exposed to moisture and should be kept under strict moisture control.

Should the contractor encounter materials potentially suitable for reuse during earthwork operations, the contractor should avoid mixing the reusable soils with unsuitable soils. The soils to be reused should be excavated and stockpiled separately for compliance testing. The contractor should be prepared to amend the existing fill free of organics to meet the gradation requirements for Ordinary Fill for reuse as trench backfill.

Soils with 20 percent or greater fines content are generally very sensitive to moisture content variations and are susceptible to frost. Such soils are very difficult to compact at moisture contents that are much higher or much lower than the optimum moisture content determined from the laboratory compaction test. Therefore, strict moisture control should be implemented during compaction of onsite soils with fines contents of 20 percent or greater. The contractor should be prepared to remove and replace such soils if pumping occurs.

4.5 Contractor Submittals

The contractor should submit details about the construction procedures, including:

- The proposed construction sequence;
- Temporary earth support system for the proposed vaults if any; and
- Groundwater control system.

Contractor submittals should be prepared and sealed by a professional engineer registered in the Commonwealth of Massachusetts and should be submitted for review at least two weeks before the start of the work.



4.6 Temporary Excavations

All excavations to receive human traffic should be constructed in accordance with the OSHA guidelines.

The site soils should generally be considered Type “C” and should have a maximum allowable slope of 1.5 Horizontal to 1 Vertical (1.5H:1V) for excavations less than 20 feet deep. Deeper excavations, if needed, should have shoring designed by a professional engineer.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of the excavation sides and bottom.

4.7 Groundwater Control Procedures and Flow Rate Estimates

4.7.1 General

We anticipate that groundwater control procedures will be needed during the excavation for the proposed vaults to handle the groundwater. We recommend that the contractor design and submit a plan to collect and remove groundwater prior to the start of the excavations. Such a plan should include, at a minimum, multiple sump pump pits extending at least 3 feet beneath the bottom of the excavation.

Groundwater levels should be maintained at a minimum of 1-foot below the bottom of excavations during construction. The contractor should be permitted to employ whatever commonly accepted means and practices are available to dewater.

To reduce the potential for sinkholes developing over sump pump pits after the sump pumps are removed, the crushed stone placed in the sump pump pits should be wrapped in a geotextile fabric. Alternatively, the crushed stone should be entirely removed after the sump pump is no longer in use and the sump pump pit should be restored with suitable backfill.

Groundwater collected from excavations should be filtered for fines in sedimentation basins before being discharged. At a minimum, the sedimentation basins should be constructed of hay bales wrapped in a geotextile fabric.

The contractor should discharge groundwater from the dewatering system in accordance with permits and local and state regulations.



4.7.2 Flow Rate Estimates

We estimated the anticipated quantity of flow in the proposed vault excavations and the proposed utility trench. We assumed a groundwater depth of 3 feet, vault excavation dimensions of 30 feet by 10 feet with an excavation depth of 12 feet, and a utility trench depth of 6 feet.

Using the coefficient of permeability values listed in Section 2.5, we estimate a quantity of flow ranging between 1,000 and 4,000 gal/day for the proposed vaults and between 10 and 30 gal/day per foot of excavation for the proposed transmission line.



5. RECOMMENDATIONS FOR FUTURE WORK

We recommend engaging LGCI to perform the following services:

- Assist VHB during the design of the proposed sheet pile retaining wall.
- Review the geotechnical aspects of contractor submittals.
- Provide a field representative to observe the subgrades of foundations during construction.



6. REPORT LIMITATIONS

Our analysis and recommendations are based on project information provided to us at the time of this report. If changes to the type, size, and location of the proposed structures or to the site grading are made, the recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions and recommendations modified in writing by LGCI. LGCI cannot accept responsibility for designs based on our recommendations unless we are engaged to review the final plans and specifications to determine whether any changes in the project affect the validity of our recommendations and whether our recommendations have been properly implemented in the design.

It is not part of our scope to perform a more detailed site history; therefore, we have not explored for or researched the locations of buried utilities or other structures in the area of the proposed construction. Our scope did not include environmental services or services related to moisture, mold, or other biological contaminants in or around the site.

The recommendations in this report are based in part on the data obtained from the subsurface explorations. The nature and extent of variations between explorations may not become evident until construction. If variations from anticipated conditions are encountered, it may be necessary to revise the recommendations in this report. We cannot accept responsibility for designs based on recommendations in this report unless we are engaged to 1) make site visits during construction to check that the subsurface conditions exposed during construction are in general conformance with our design assumptions and 2) ascertain that, in general, the work is being performed in compliance with the contract documents.

Our report has been prepared in accordance with generally accepted engineering practices and in accordance with the terms and conditions set forth in our agreement. No other warranty, expressed or implied, is made. This report has been prepared for the exclusive use of Vanasse Hangen Brustlin, Inc. for the specific application to the proposed transmission power line borings in Sudbury, Massachusetts as conceived at this time.



7. REFERENCES

In addition to the references included in the text of the report, we used the following references:

The Commonwealth of Massachusetts (2010), “The Massachusetts State Building Code, Eighth Edition,” comprised of the International Building Code (IBC-2009) and 780 CMR: Massachusetts Amendments to IBC-2009.

The Department of Labor, Occupational Safety and Health Administration (1989), “Occupational Safety and Health Standards - Excavations; Final Rule,” 20 CFR Part 1926, Subpart P.

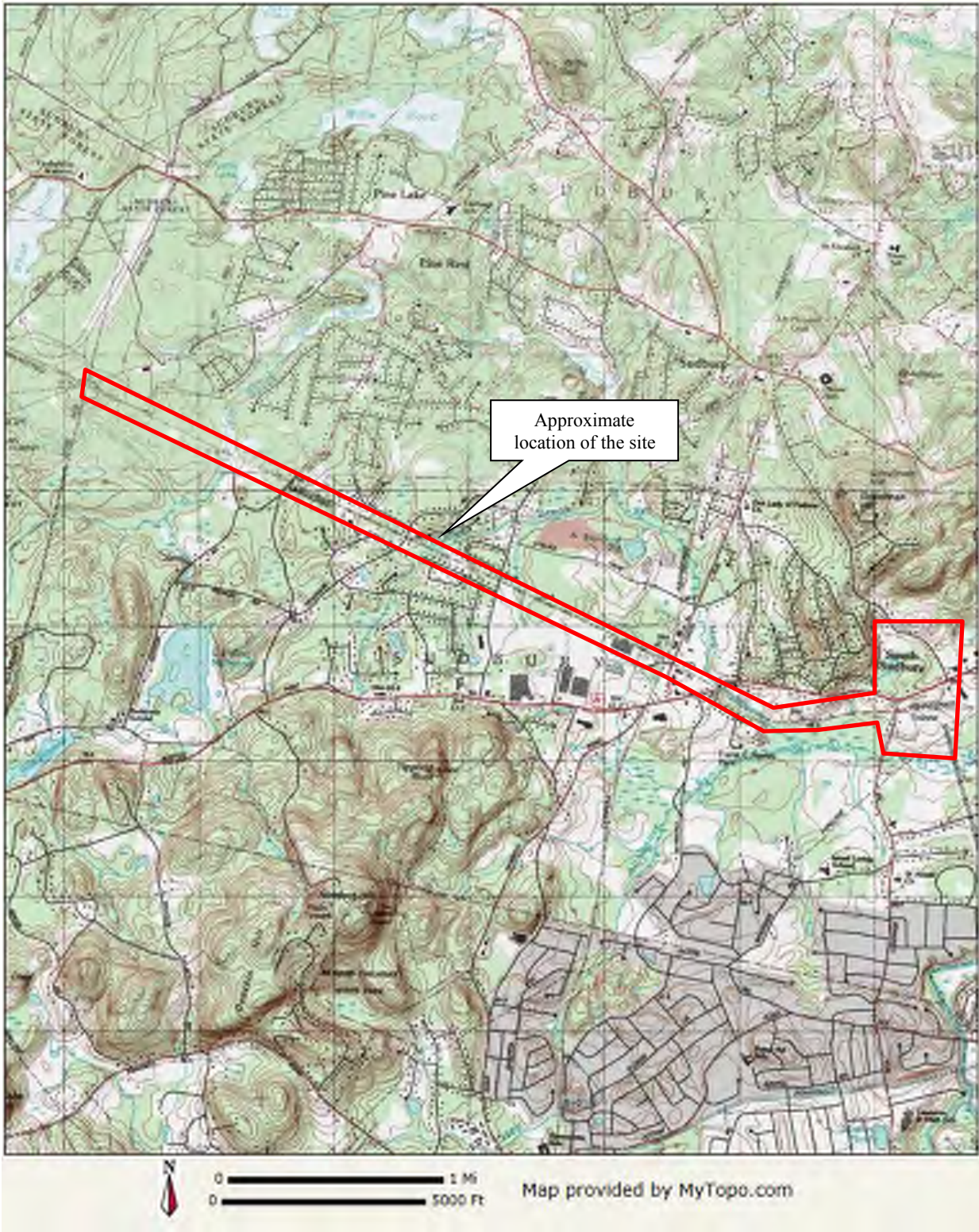
US Geological Survey Sudbury, MA Topo Map from <http://mapserver.mytopo.com>.



**Table 1 - Summary of LGCI's Borings
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Boring No.	Ground Surface Elevation (ft.) ¹	Groundwater Depth / El. (ft.) ²	Bottom of Topsoil/Subsoil/ Forest Mat Depth / El. (ft.)	Bottom of Fill Depth / El. (ft.)	Bottom of Buried Organics Depth / El. (ft.)	Top of Bedrock Depth / El. (ft.)	Bottom of Boring Depth / El. (ft.)
B-28	198.0	5.4 / 192.6	0.2 / 197.8	2.0 / 196.0	- / -	- / -	10.0 / 188.0
B-29	192.0	9.5 / 182.5	0.3 / 191.7	4.0 / 188.0	- / -	- / -	15.0 / 177.0
B-30	188.0	7.3 / 180.8	0.5 / 187.5	- / -	- / -	- / -	10.0 / 178.0
B-31	178.0	8.0 / 170.0	0.5 / 177.5	- / -	- / -	- / -	16.0 / 162.0
B-32	172.0	- / -	0.6 / 171.4	- / -	- / -	- / -	10.0 / 162.0
B-33	170.0	12.5 / 157.5	0.5 / 169.5	4.9 / 165.1	- / -	- / -	17.0 / 153.0
B-34	176.0	- / -	0.6 / 175.4	8.0 / 168.0	- / -	- / -	10.0 / 166.0
B-35	182.0	- / -	- / -	1.3 / 180.7	- / -	- / -	8.0 / 174.0
B-36	184.0	4.0 / 180.0	- / -	1.1 / 182.9	- / -	6.0 / 178.0	10.5 / 173.5
B-37 ³	192.0	- / -	1.0 / 191.0	- / -	- / -	- / -	10.0 / 182.0
B-38 ³	196.0	15.0 / 181.0	0.7 / 195.3	- / -	- / -	- / -	16.0 / 180.0
B-39	158.0	9.5 / 148.5	0.8 / 157.2	6.0 / 152.0	- / -	- / -	15.0 / 143.0
B-40	162.0	9.0 / 153.0	- / -	1.5 / 160.5	- / -	- / -	10.0 / 152.0
B-41	168.0	9.0 / 159.0	0.1 / 167.9	1.1 / 166.9	- / -	- / -	17.0 / 151.0
B-42	162.0	9.3 / 152.7	0.1 / 161.9	7.0 / 155.0	- / -	- / -	10.0 / 152.0
B-51	128.0	6.0 / 122.0	- / -	8.4 / 119.6	- / -	- / -	16.0 / 112.0
B-BB-5	125.0	3.2 / 121.8	0.1 / 124.9	2.0 / 123.0	15.0 / 110.0	- / -	54.0 / 71.0
B-BB-6	124.0	3.3 / 120.7	0.1 / 123.9	6.0 / 118.0	11.6 / 112.4	- / -	51.0 / 73.0
B-GB-1	180.0	- / -	- / -	0.8 / 179.2	- / -	- / -	6.0 / 174.0
B-GB-2	180.0	- / -	- / -	0.6 / 179.4	- / -	- / -	3.0 / 177.0
B-GB-3	182.0	- / -	- / -	0.5 / 181.5	- / -	- / -	2.5 / 179.5
B-GB-5	136.0	3.5 / 132.5	0.6 / 135.4	2.5 / 133.5	6.0 / 130.0	- / -	12.0 / 124.0
B-GB-17	128.0	6.8 / 121.2	0.3 / 127.7	6.4 / 121.6	- / -	- / -	20.0 / 108.0
B-GB-18	126.0	6.0 / 120.0	0.3 / 125.7	8.0 / 118.0	11.1 / 114.9	- / -	21.0 / 105.0
B-GB-19	126.0	3.6 / 122.4	0.1 / 125.9	12.0 / 114.0	- / -	- / -	21.0 / 105.0
B-GB-20	131.0	5.0 / 126.0	0.3 / 130.7	8.0 / 123.0	10.0 / 121.0	18.0 / 113.0	23.0 / 108.0
B-GB-21	132.0	3.0 / 129.0	0.3 / 131.7	10.0 / 122.0	- / -	- / -	20.0 / 112.0
B-MP-27	162.0	10.5 / 151.5	0.6 / 161.4	- / -	- / -	- / -	15.0 / 147.0
B-MP-28	158.0	6.0 / 152.0	0.6 / 157.4	- / -	- / -	- / -	10.0 / 148.0
B-MP-29	150.0	11.6 / 138.4	0.6 / 149.4	- / -	- / -	- / -	16.0 / 134.0
B-MP-30	140.0	6.8 / 133.2	0.5 / 139.5	8.0 / 132.0	- / -	- / -	10.0 / 130.0
B-MP-31	136.0	7.8 / 128.2	0.5 / 135.5	4.6 / 131.4	- / -	- / -	16.0 / 120.0
B-MP-32	136.0	8.0 / 128.0	2.0 / 134.0	4.6 / 131.4	8.0 / 128.0	- / -	12.0 / 124.0
B-MP-33	136.0	8.0 / 128.0	0.8 / 135.2	6.6 / 129.4	- / -	- / -	10.0 / 126.0
B-MP-34	133.0	6.8 / 126.2	0.4 / 132.6	6.3 / 126.7	- / -	- / -	12.0 / 121.0
B-MP-35	130.0	8.5 / 121.5	0.5 / 129.5	11.0 / 119.0	- / -	- / -	15.0 / 115.0
B-MP-36	126.0	4.3 / 121.7	0.1 / 125.9	5.1 / 120.9	8.5 / 117.5	- / -	10.0 / 116.0
B-MP-37 ³	128.0	4.9 / 123.1	0.1 / 127.9	- / -	- / -	- / -	10.0 / 118.0
B-MP-38	136.0	5.0 / 131.0	0.1 / 135.9	6.4 / 129.6	- / -	- / -	16.5 / 119.5
B-MP-39	140.0	4.3 / 135.7	0.1 / 139.9	8.4 / 131.6	- / -	- / -	10.0 / 130.0

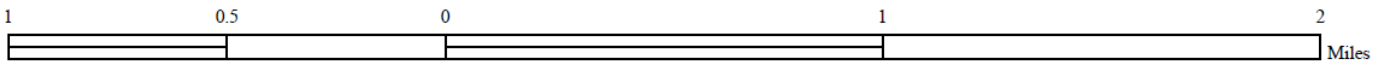
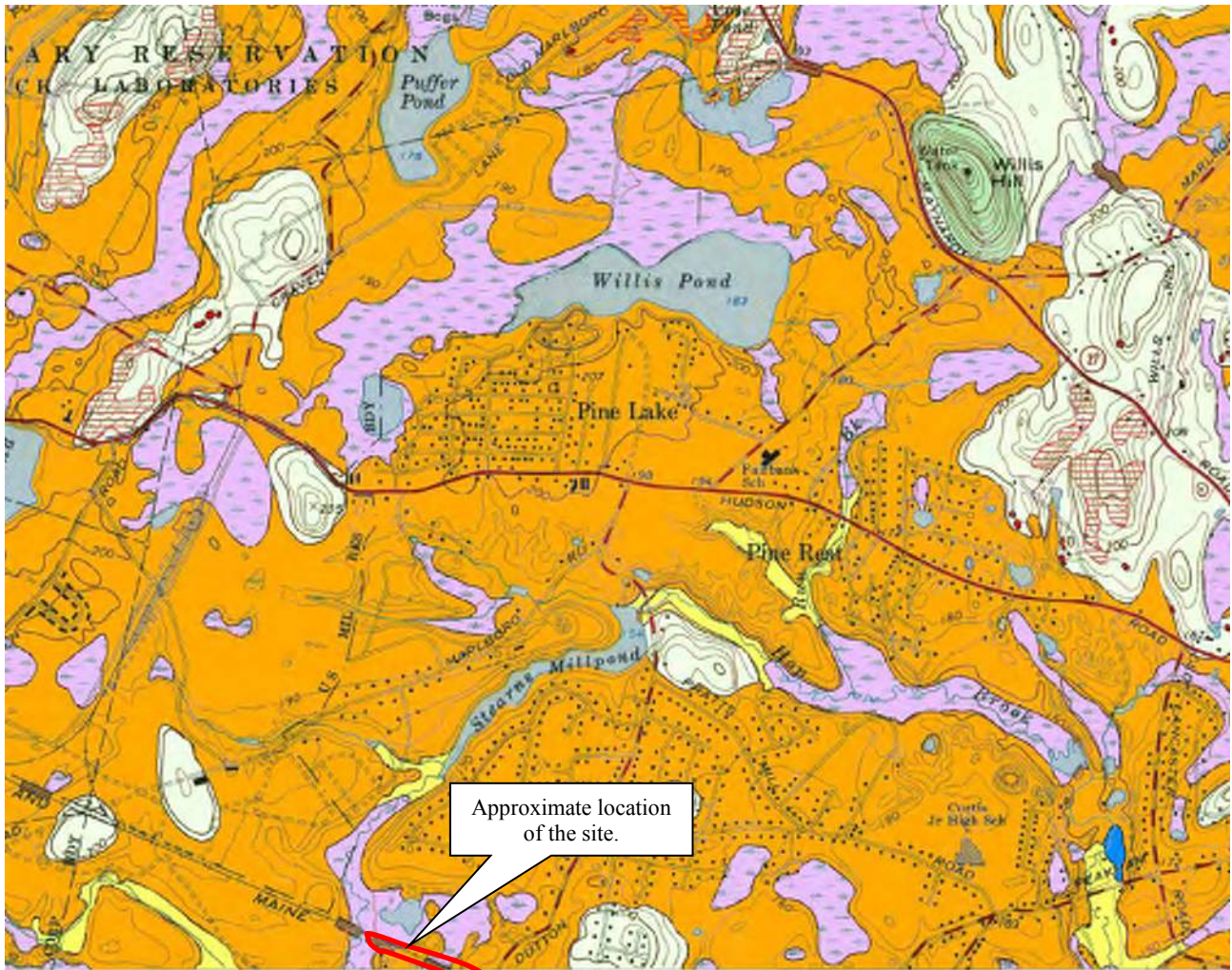
1. The ground surface elevations was interpolated to the nearest foot from a plan titled: "Proposed Conditions Plan for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc. and dated February 5, 2018.
2. Groundwater observed at the end of drilling or based on sample moisture, whichever was measured last, as indicated on the boring logs.
3. Borings B-37, B-38, and B-MP-37 terminated in fill.
4. "-" means layer not encountered.



Contour Intervals: 3 meters

Figure based on USGS topographic map of Sudbury, MA obtained from www.mytopo.com/maps


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 1 – Site Location Map	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

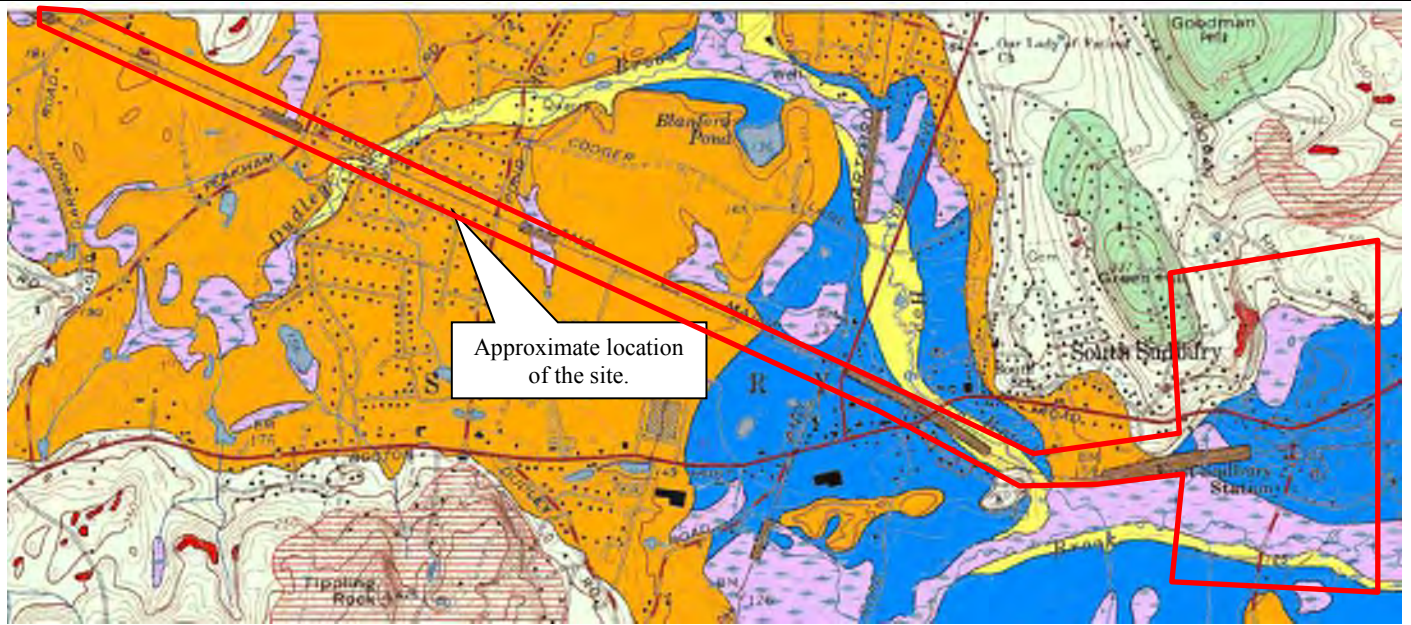


- Coarse deposits** include: *Gravel deposits* composed mainly of gravel-sized clasts; cobbles and boulders predominate; minor amounts of sand within gravel beds, and sand comprises few separate layers. Gravel layers generally are poorly sorted and bedding commonly is distorted and faulted due to postdepositional collapse related to melting of ice. *Sand and gravel deposits* composed of mixtures of gravel and sand within individual layers and as alternating layers. Sand and gravel layers generally range from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. Layers are well to poorly sorted; bedding may be distorted and faulted due to postdepositional collapse. *Sand deposits* composed mainly of very coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25 percent gravel particles, generally granules and pebbles; finer layers may contain some very fine sand, silt, and clay.
- Swamp deposits**—Organic muck and peat that contain minor amounts of sand, silt, and clay, stratified and poorly sorted, in kettle depressions or poorly drained areas. Most swamp deposits are less than about 10 ft thick. Swamp deposits overlie glacial deposits or bedrock. They locally overlie glacial till even where they occur within thin glacial meltwater deposits.

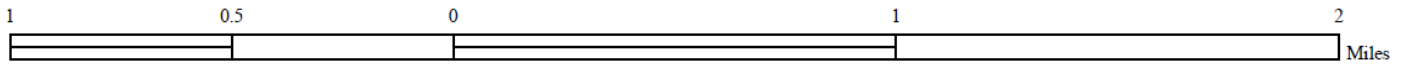


Figure based on map titled: "Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts," prepared by Stone, B.D. and Stone, J.R. for U.S. Geological Survey, Open-File Report 2006-1260-A, 2006.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 2A – Surficial Geologic Map	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Approximate location of the site.












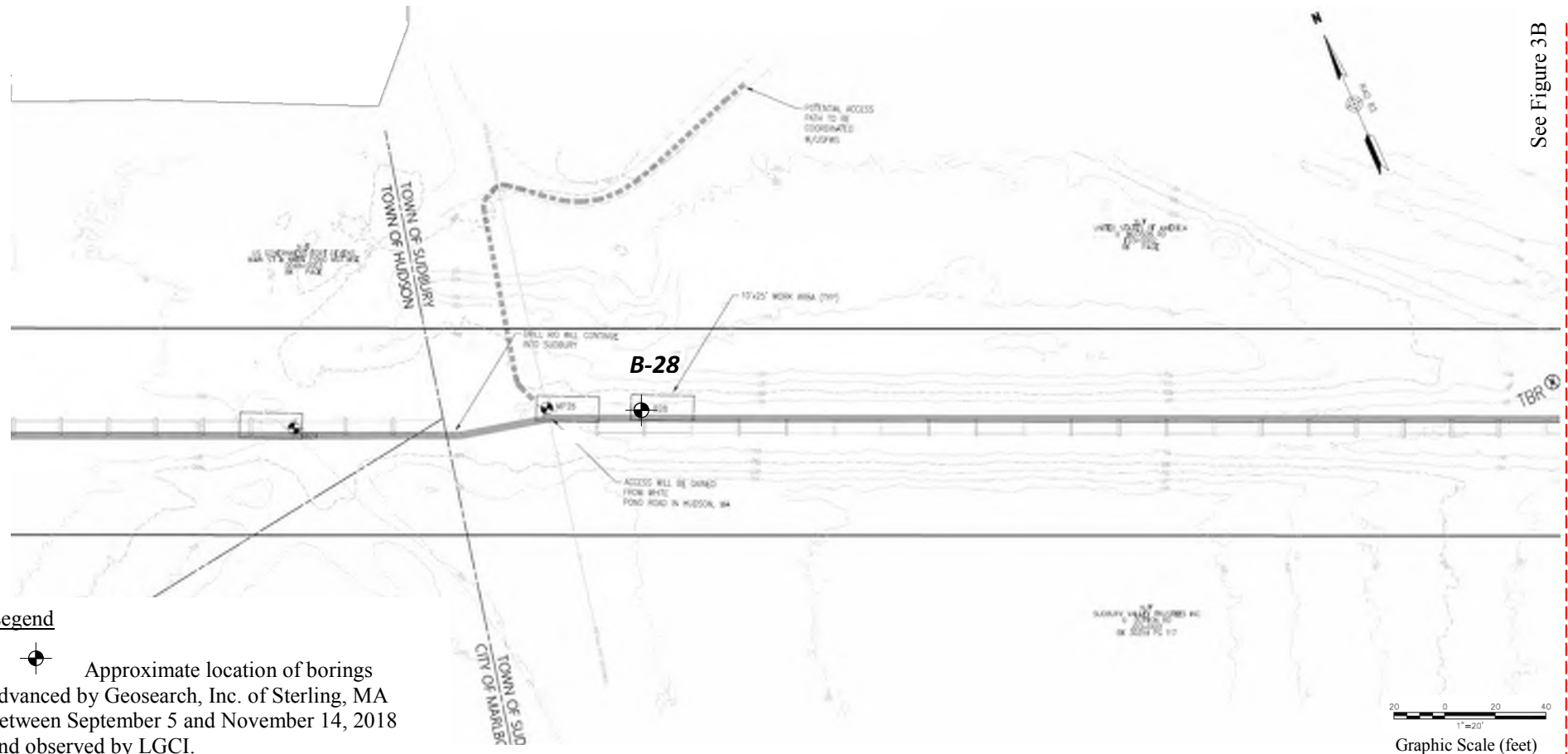
-  **Bedrock outcrops and areas of abundant outcrop or shallow bedrock**—Solid color shows extent of individual bedrock outcrops; line pattern indicates areas of shallow bedrock or areas where small outcrops are too numerous to map individually; in areas of shallow bedrock, surficial materials are less than 5-10 ft thick.
-  **Coarse deposits** include: Gravel deposits composed mainly of gravel-sized clasts; cobbles and boulders predominate; minor amounts of sand within gravel beds, and sand comprises few separate layers. Gravel layers generally are poorly sorted and bedding commonly is distorted and faulted due to postdepositional collapse related to melting of ice. Sand and gravel deposits composed of mixtures of gravel and sand within individual layers and as alternating layers. Sand and gravel layers generally range from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. Layers are well to poorly sorted; bedding may be distorted and faulted due to postdepositional collapse. Sand deposits composed mainly of very coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25 percent gravel particles, generally granules and pebbles; finer layers may contain some very fine sand, silt, and clay.
-  **Fine deposits** include very fine sand, silt, and clay that occurs as well-sorted, thin layers of alternating silt and clay, or thicker layers of very fine sand and silt. Very fine sand commonly occurs at the surface and grades downward into rhythmically bedded silt and clay varves. Locally, this map unit may include areas underlain by fine sand.
-  **Thin till**—Nonsorted, nonstratified matrix of sand, some silt, and little clay containing scattered gravel clasts and few large boulders; in areas where till is generally less than 10-15 ft thick and including areas of bedrock outcrop where till is absent. Predominantly upper till of the last glaciation; loose, generally sandy, commonly stony. Two facies are present in some places; a looser, coarser-grained ablation facies, melted out from supraglacial position; and an underlying more compact, finer-grained lodgement facies deposited subglacially. In general, both ablation and lodgement facies of upper till derived from fine-grained bedrock are finer grained, more compact, less stony and have fewer surface boulders than upper till derived from coarser grained crystalline rocks. Fine-grained bedrock sources include the red Mesozoic sedimentary rocks of the Connecticut River lowland, marble in the western river valleys, and fine-grained schists in upland areas.
-  **Thick till**—Nonsorted, nonstratified matrix of sand, some silt, and little clay containing scattered gravel clasts and few large boulders at the surface; in the shallow subsurface, compact, nonsorted matrix of silt, very fine sand, and some clay containing scattered small gravel clasts in areas where till is greater than 10-15 ft thick, chiefly in drumlin landforms in which till thickness commonly exceeds 100 ft (maximum recorded thickness is 230 ft). Although upper till is the surface deposit, the lower till constitutes the bulk of the material in these areas. Lower till is moderately to very compact, and is commonly finer grained and less stony than upper till. An oxidized zone, the lower part of a soil profile formed during a period of interglacial weathering, is generally present in the upper part of the lower till. This zone commonly shows closely spaced joints that are stained with iron and manganese oxides.
-  **Artificial fill**—Earth materials and manmade materials that have been artificially emplaced, primarily in highway and railroad embankments, and in dams; may also include landfills, urban development areas, and filled coastal wetlands.
-  **Floodplain alluvium**—Sand, gravel, silt, and some organic material, stratified and well sorted to poorly sorted, beneath the floodplains of modern streams. The texture of alluvium commonly varies over short distances both laterally and vertically, and generally is similar to the texture of adjacent glacial deposits. Along smaller streams, alluvium is commonly less than 5 ft thick. The most extensive deposit of alluvium on the map is along the Charles, Assabet, and Concord Rivers where the texture is predominantly sand, fine gravel, and silt, and total thickness is as much as 25 ft. Alluvium typically overlies thicker glacial stratified deposits.
-  **Swamp deposits**—Organic muck and peat that contain minor amounts of sand, silt, and clay, stratified and poorly sorted, in kettle depressions or poorly drained areas. Most swamp deposits are less than about 10 ft thick. Swamp deposits overlie glacial deposits or bedrock. They locally overlie glacial till even where they occur within thin glacial meltwater deposits.


Figure based on map titled: "Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts," prepared by Stone, B.D. and Stone, J.R. for U.S. Geological Survey, Open-File Report 2006-1260-A, 2006.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 2B – Surficial Geologic Map	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: December 2018

See Figure 3B



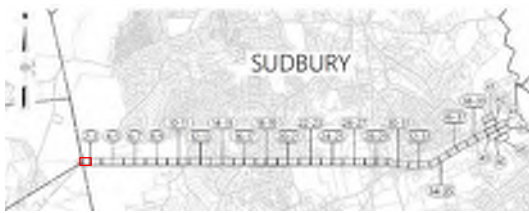
Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

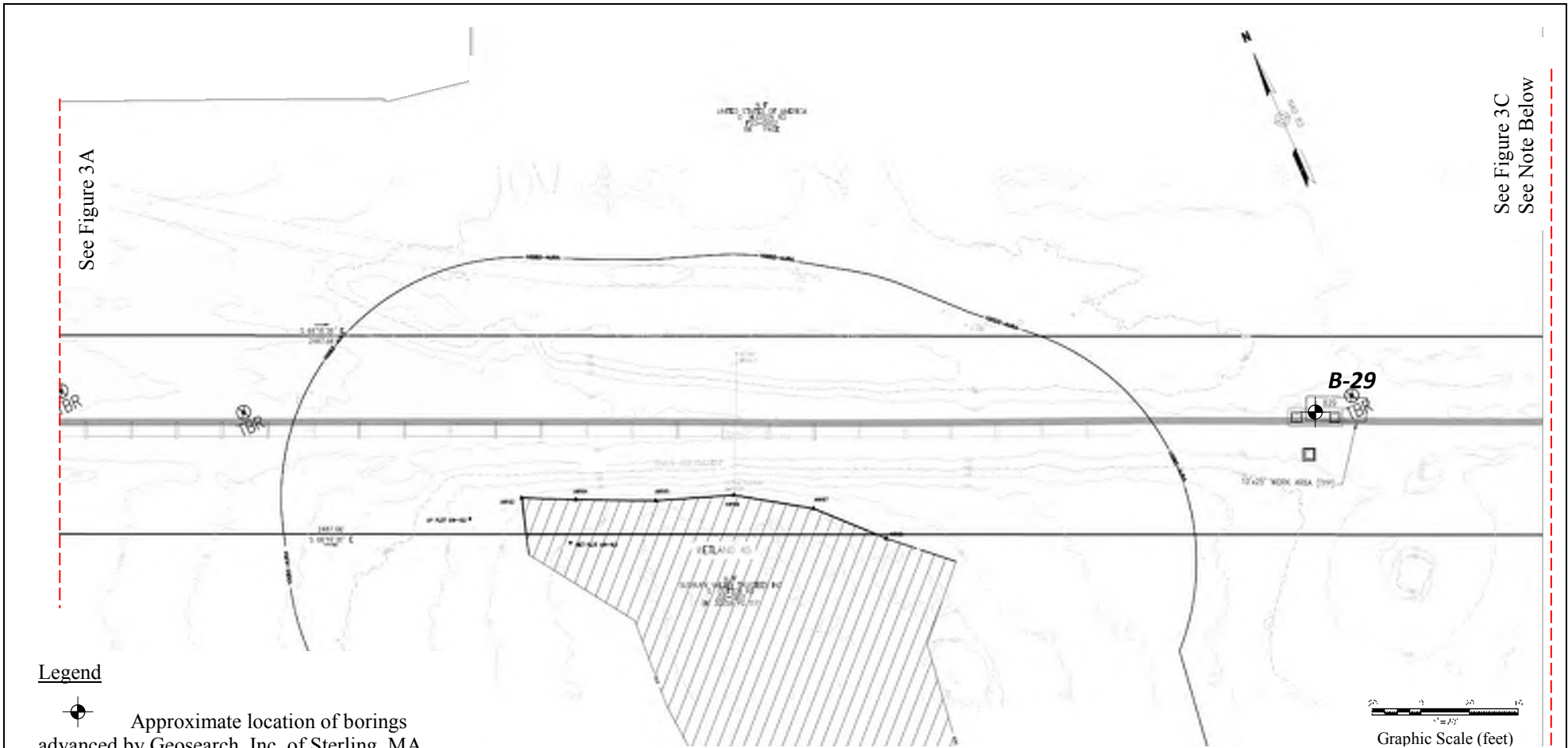
Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3A – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

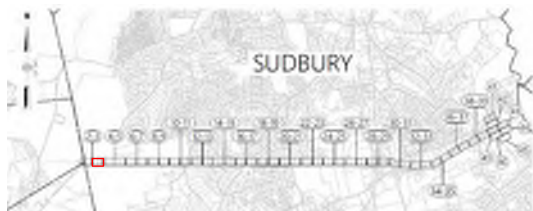


See Figure 3C
See Note Below

Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

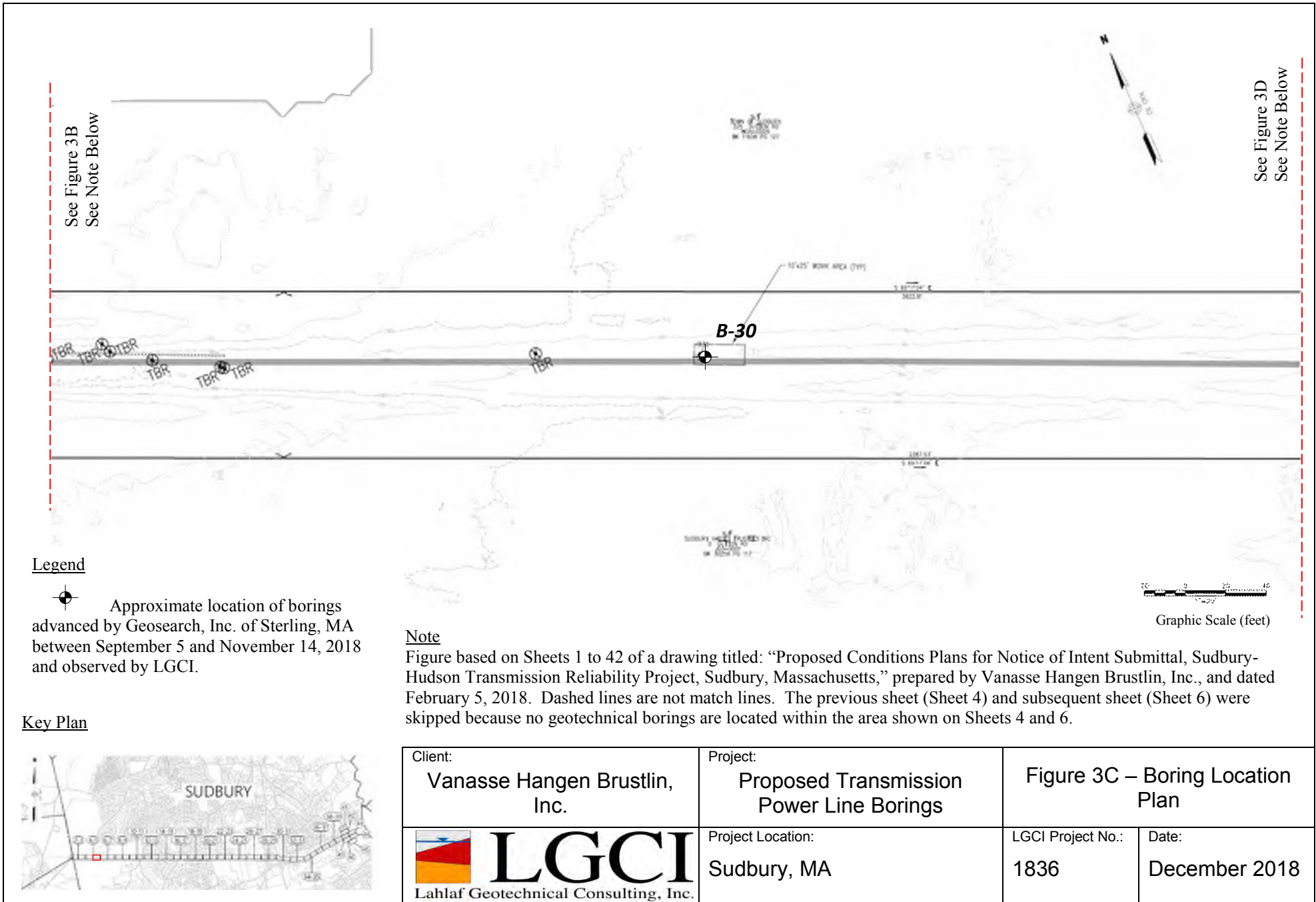
Key Plan

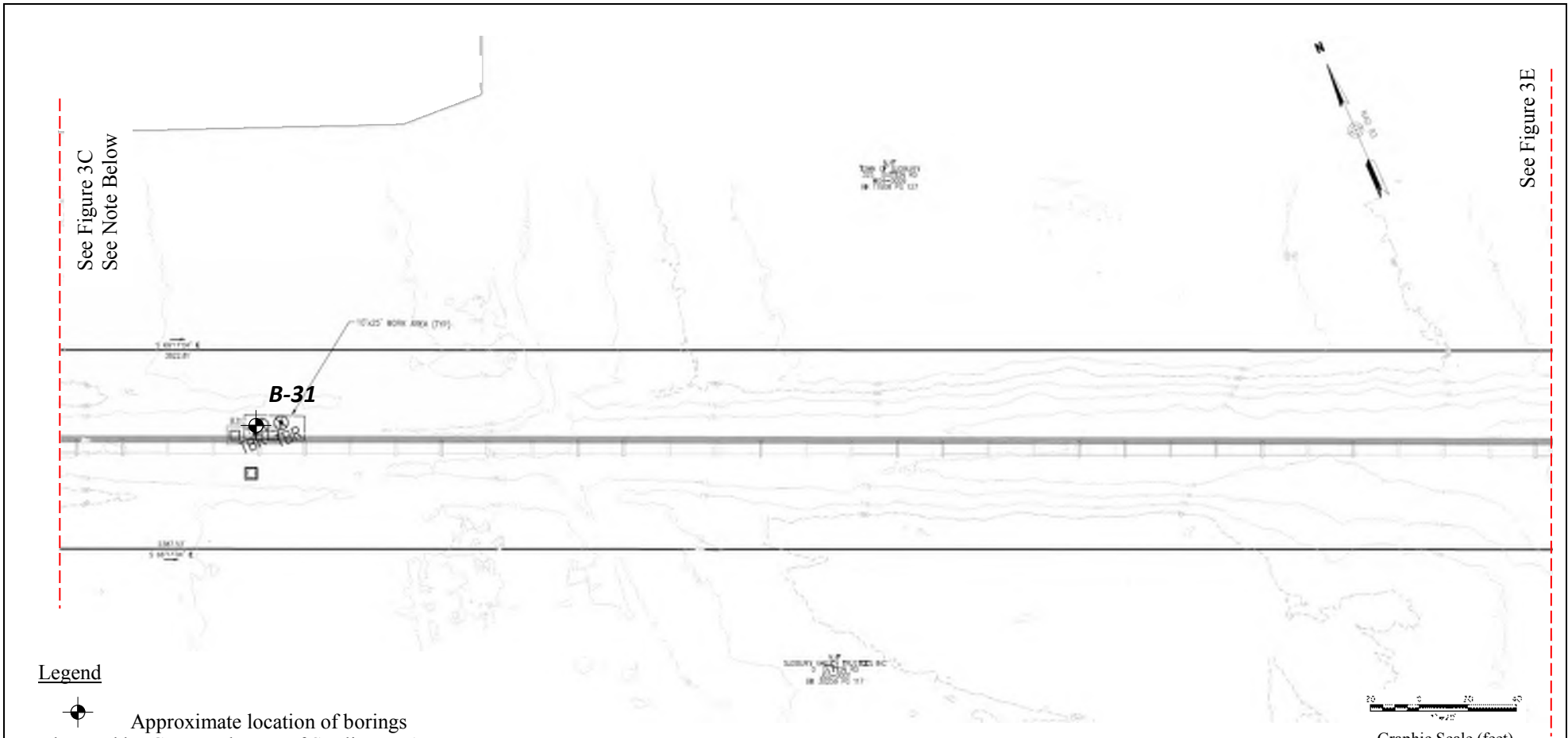


Note


Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 4) was skipped because no geotechnical borings are located within the area shown on Sheet 4.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3B – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018





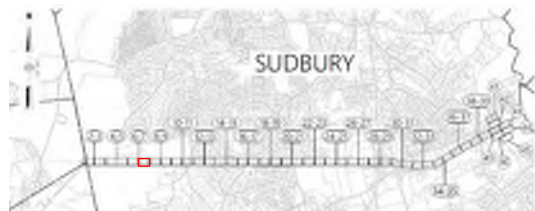
Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 6) was skipped because no geotechnical borings are located within the area shown on Sheet 6.

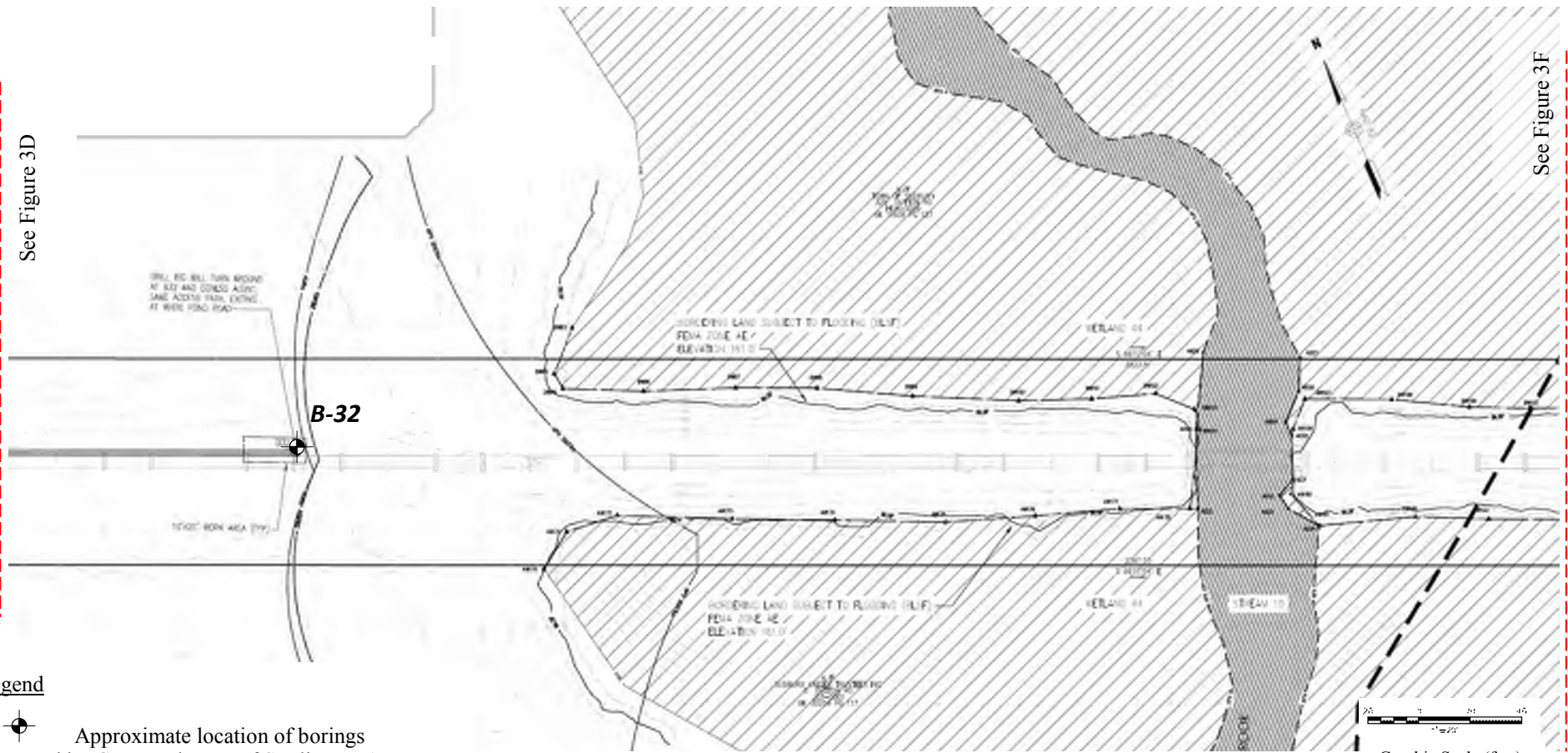
Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3D – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

See Figure 3D

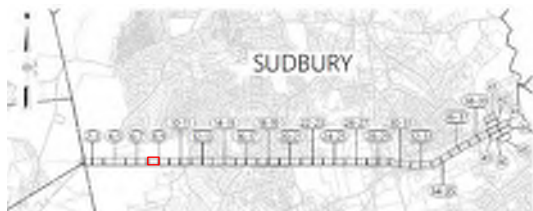
See Figure 3F



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

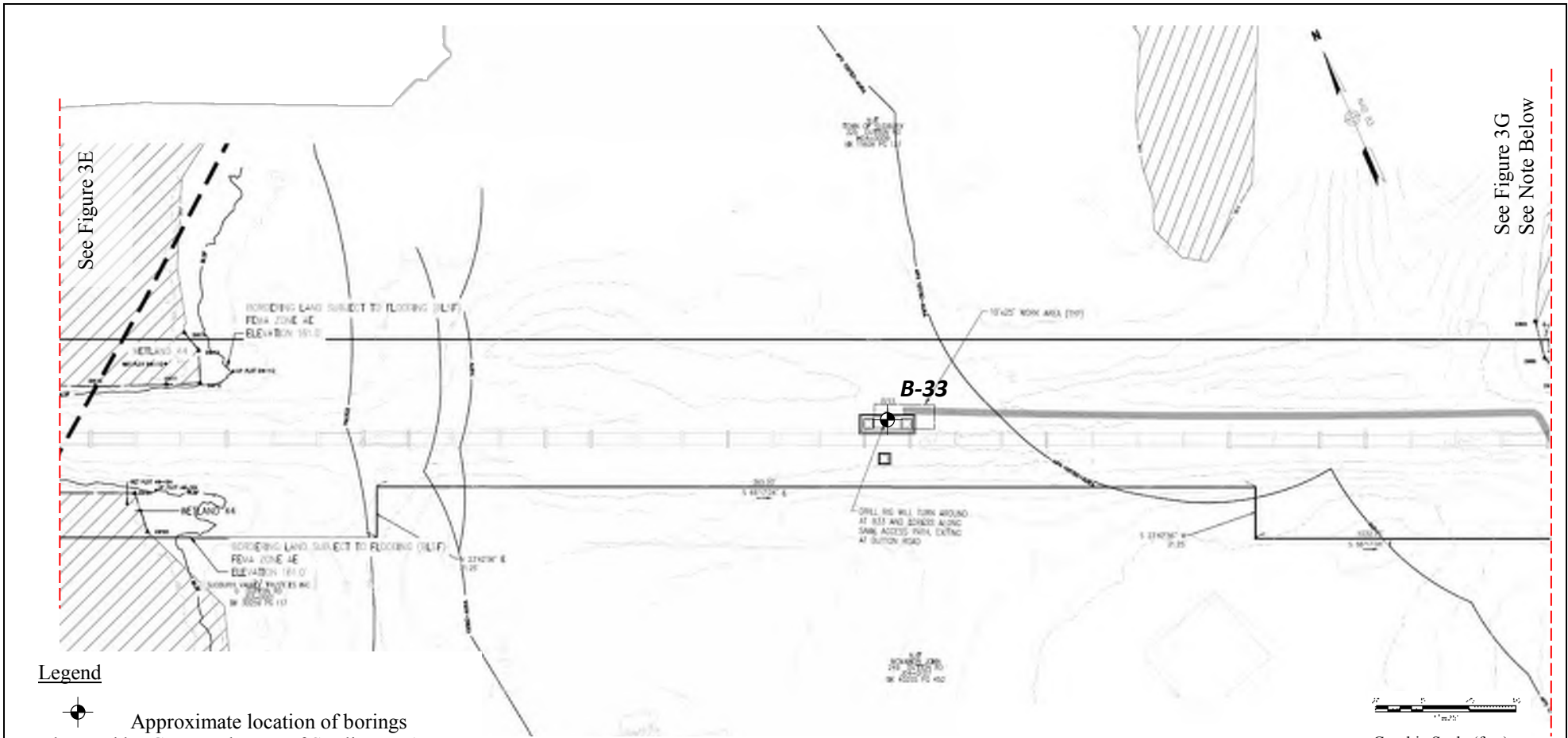
Key Plan




Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

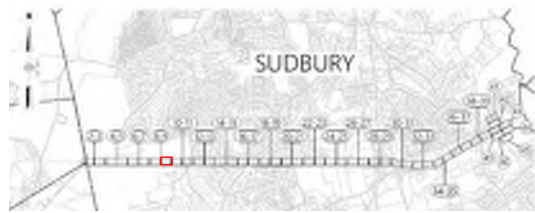
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3E – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

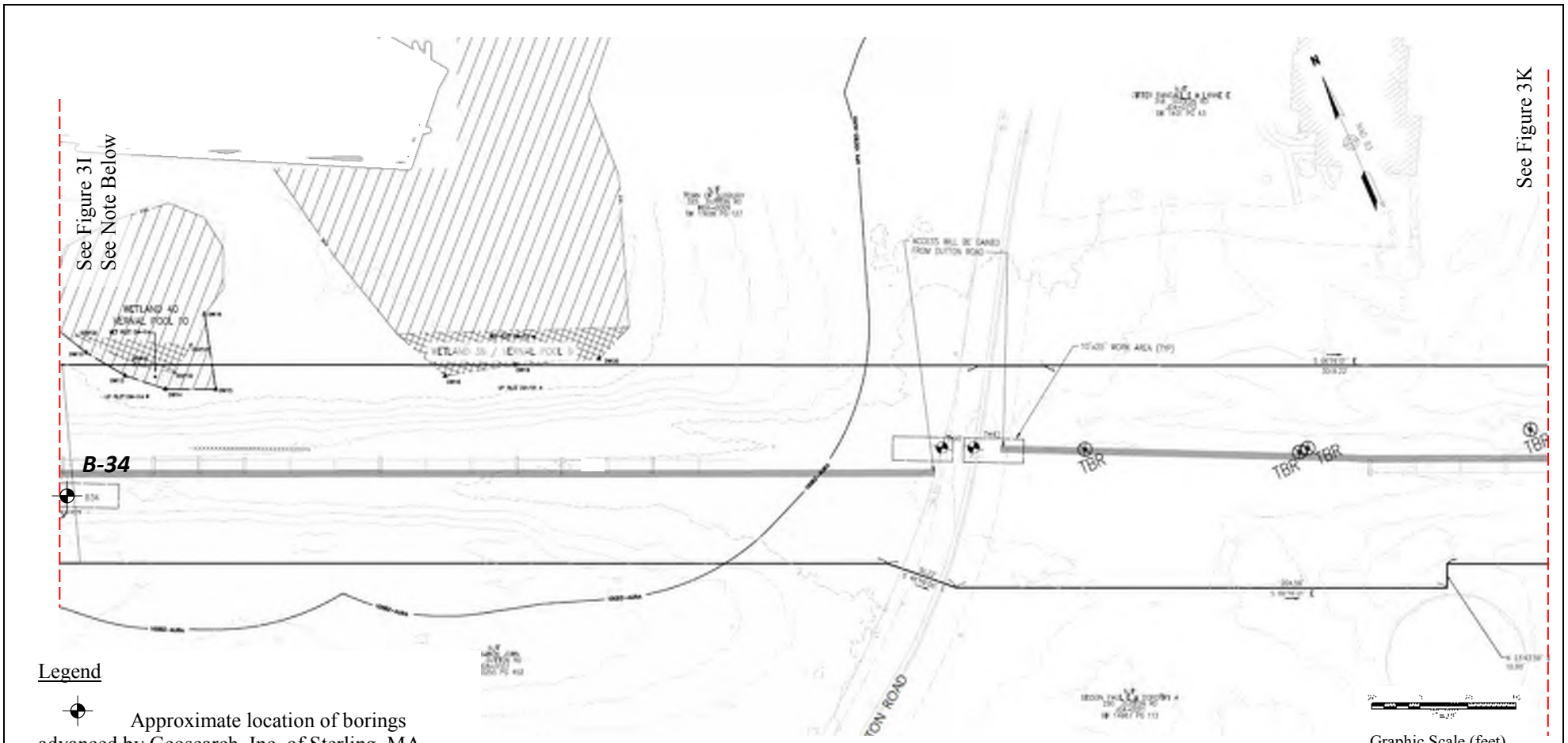
Key Plan




Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 10) was skipped because the geotechnical boring shown on it is also shown within the area shown on Sheet 11.

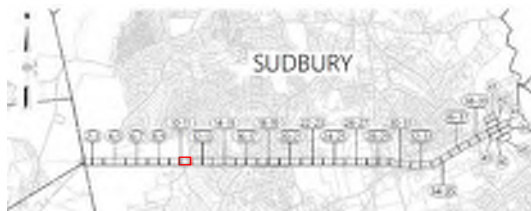
Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3F – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

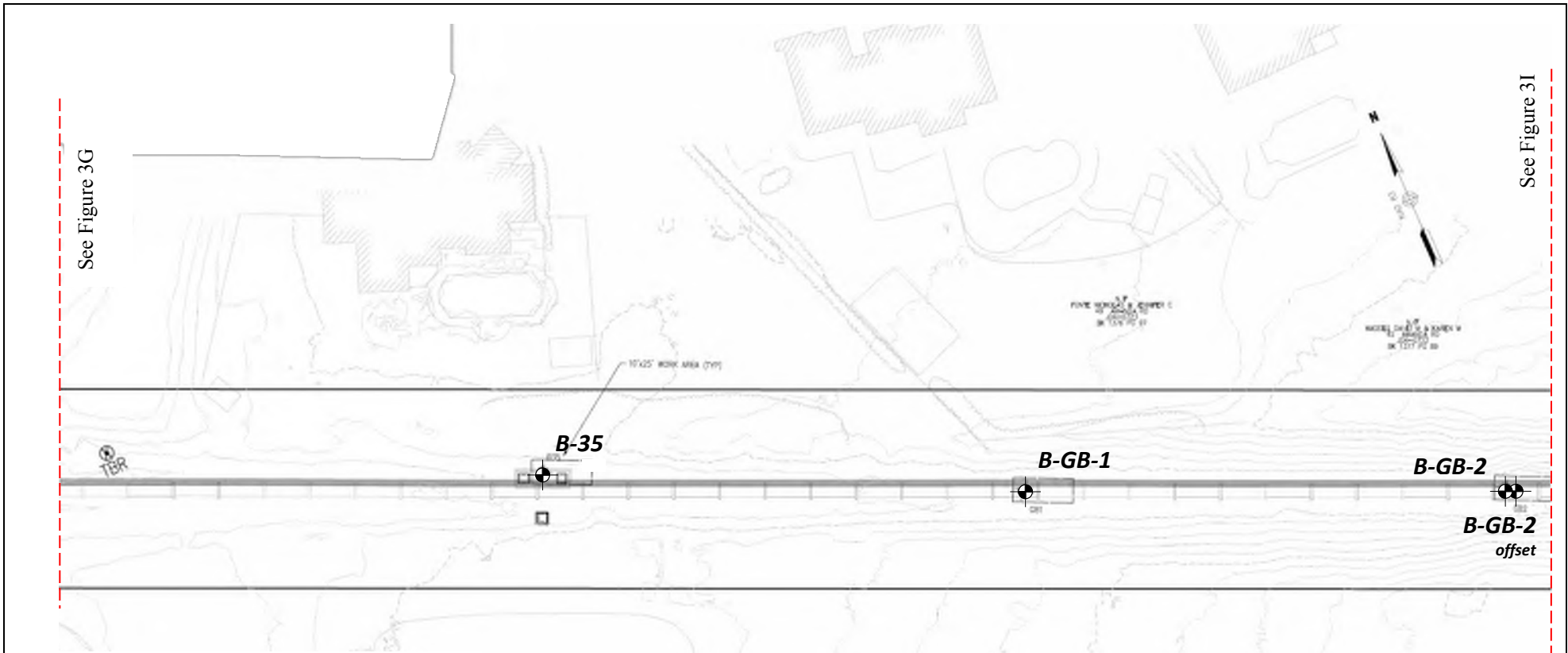
Key Plan




Note

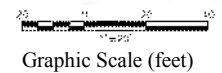
Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 10) was skipped because the geotechnical boring shown on it is also shown within the area shown on this sheet (Sheet 11).

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3G – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Legend

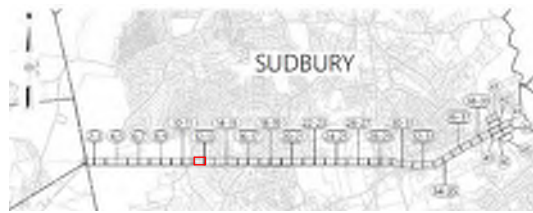

 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.




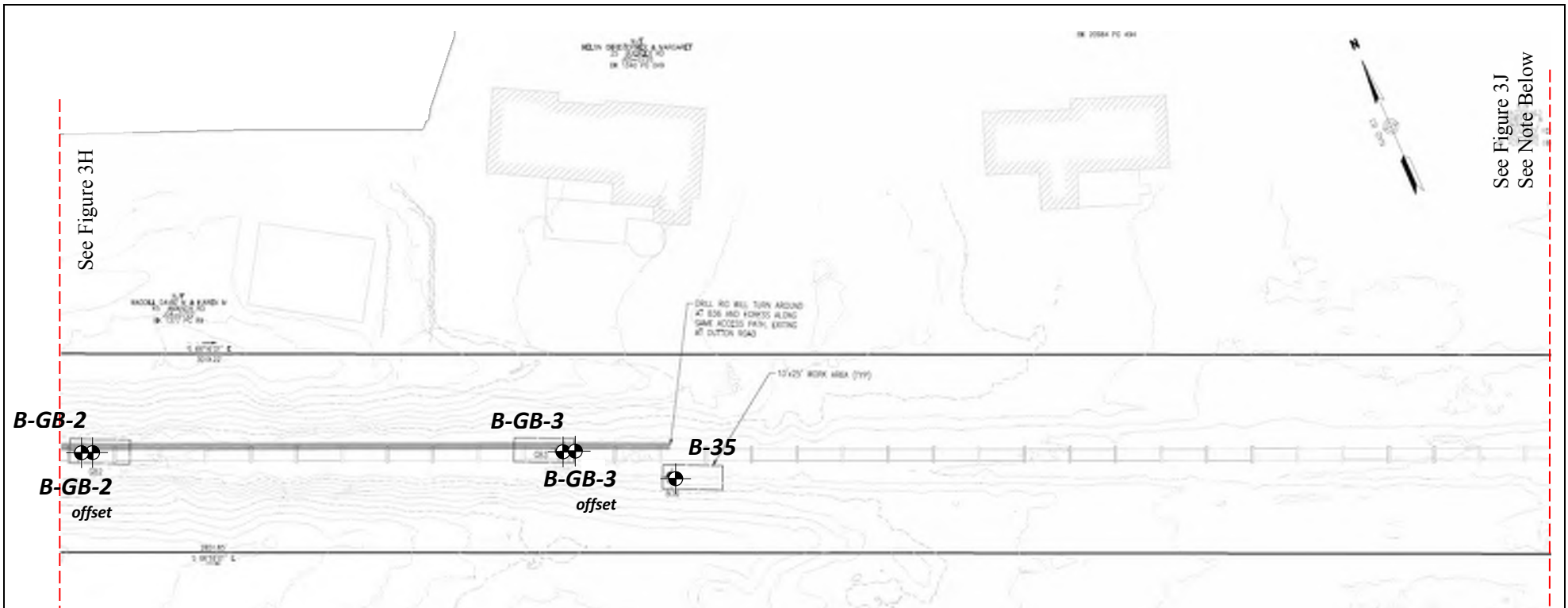
Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.


Key Plan



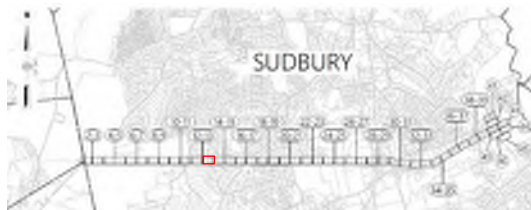
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3H – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

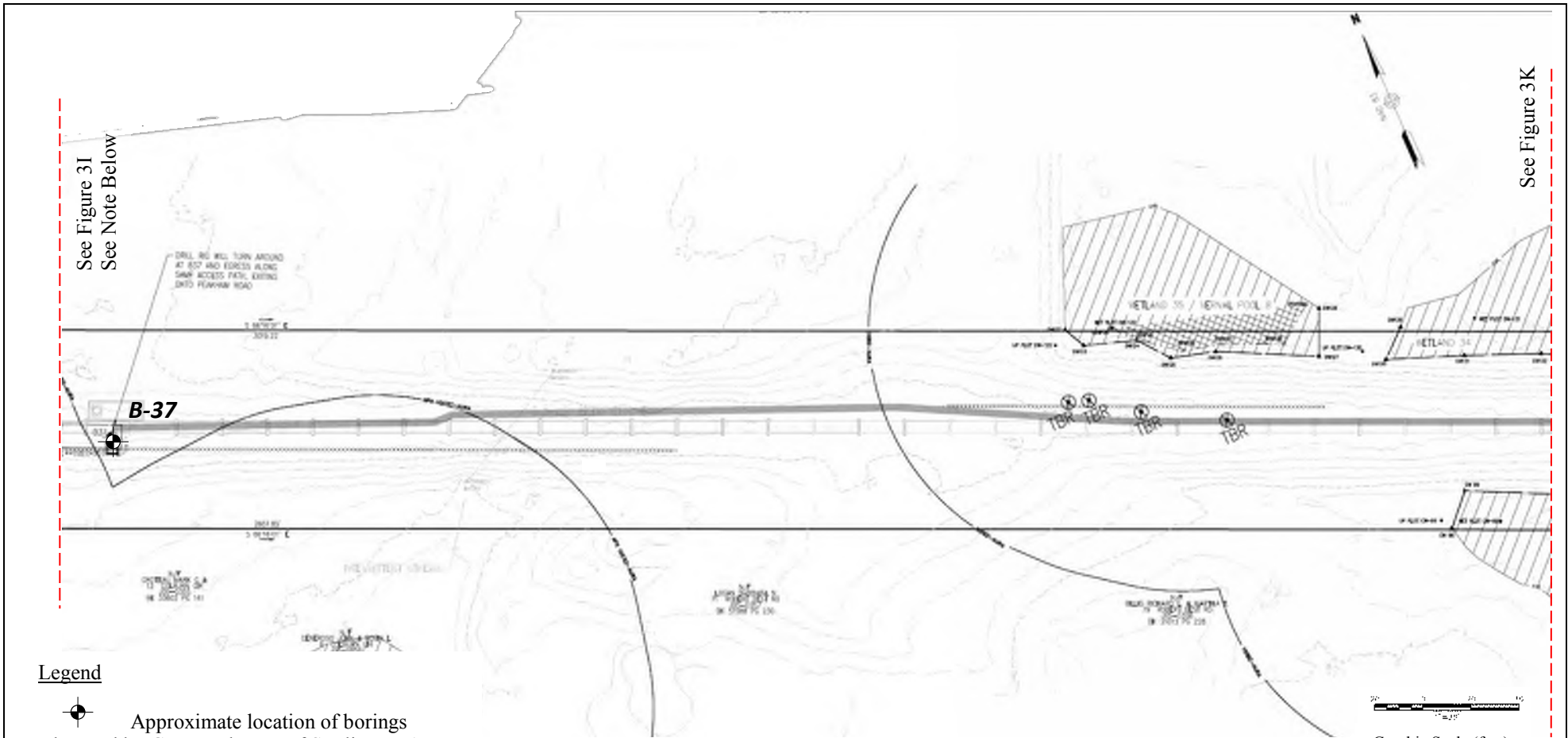
Key Plan




Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 14) was skipped because the geotechnical boring shown on it is also shown within the area shown on Sheet 15.

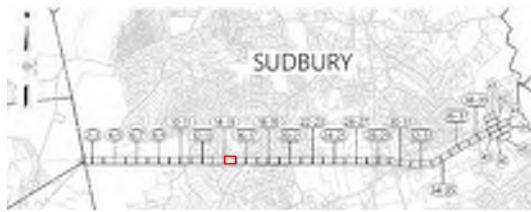
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3I – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Key Plan



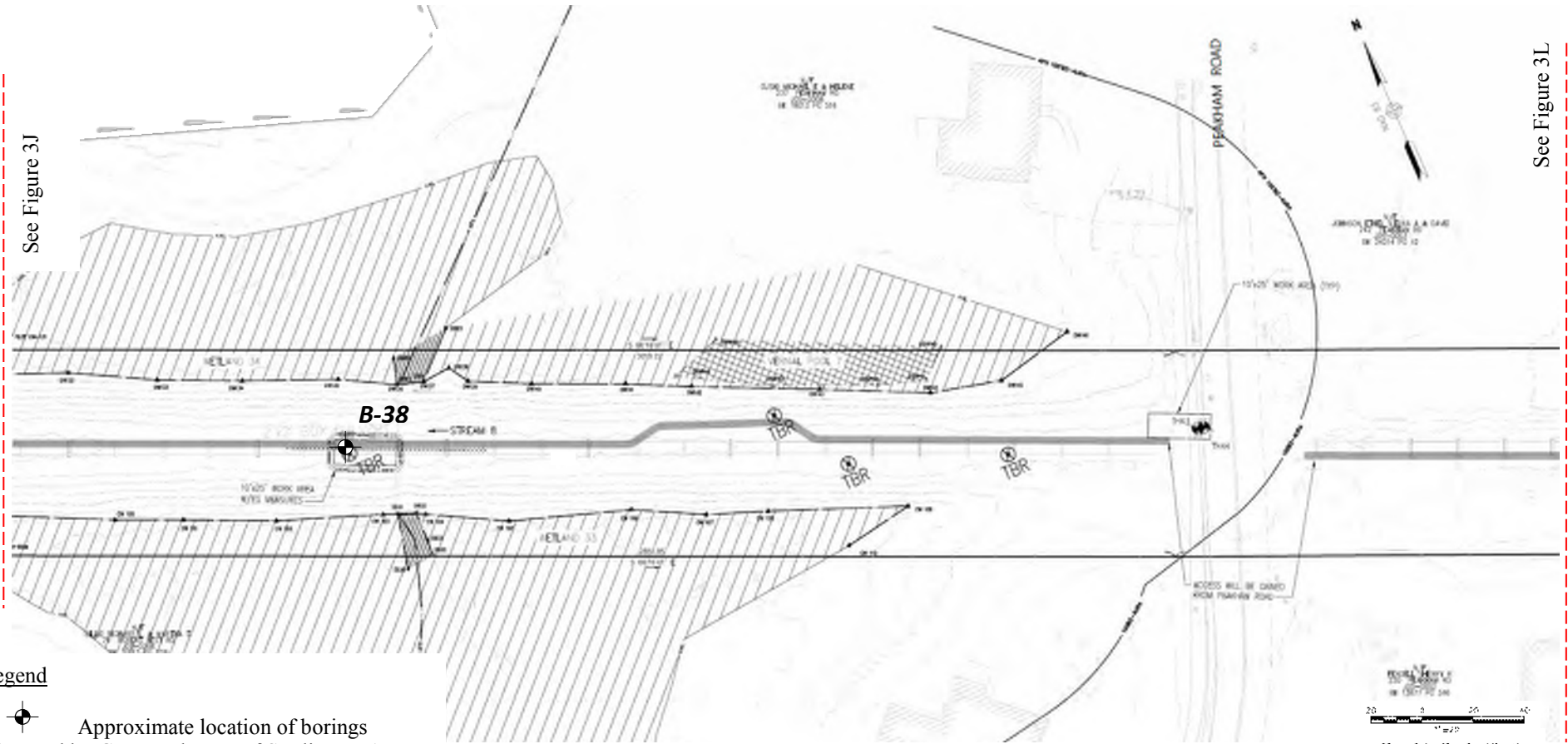
Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 14) was skipped because the geotechnical boring shown on it is also shown within the area shown on this sheet (Sheet 15).


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3J – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

See Figure 3J

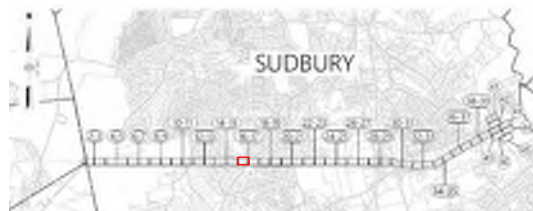
See Figure 3L



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

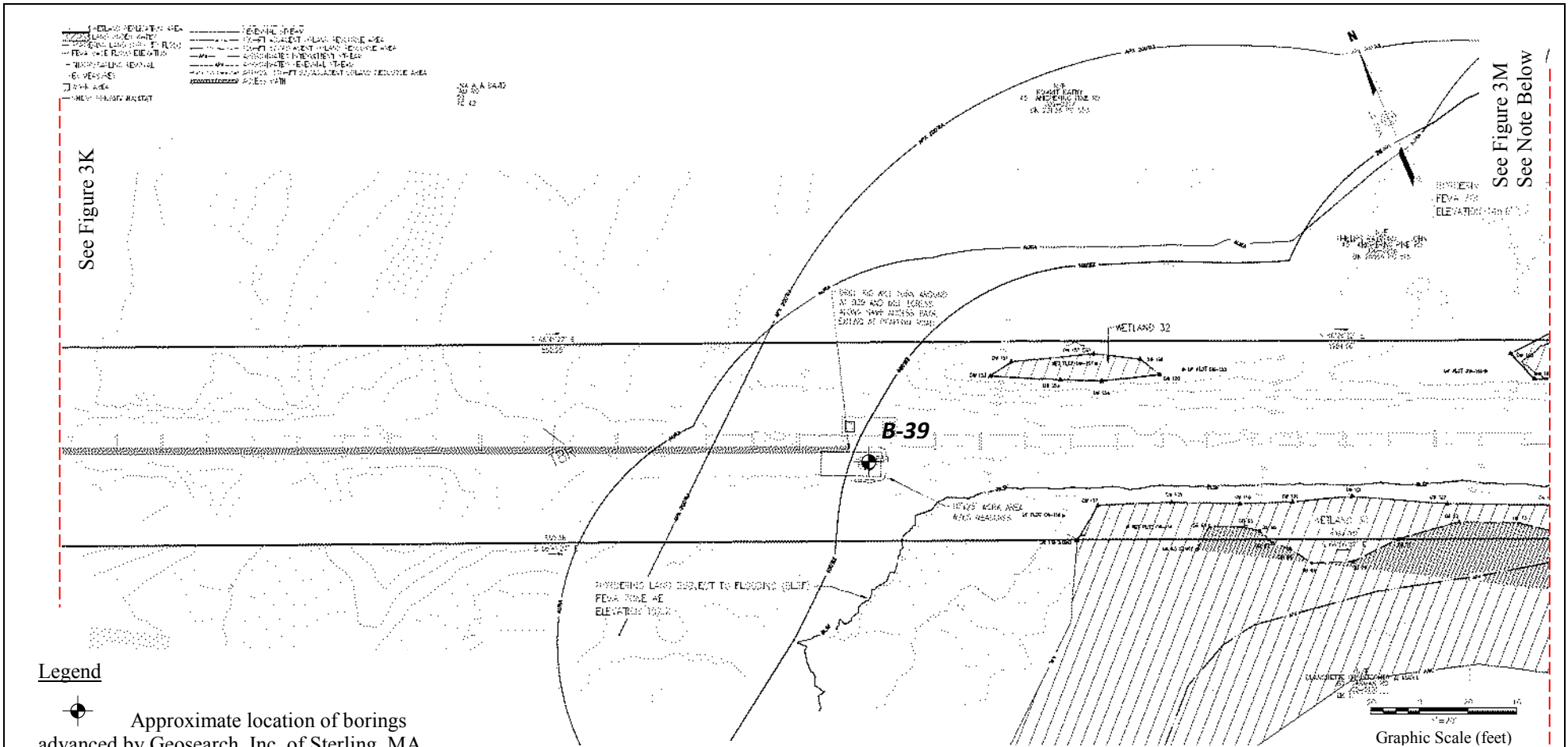
Key Plan



Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3K – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



See Figure 3K

See Figure 3M
See Note Below


Legend

Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Note
Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 18) was skipped because no geotechnical borings are located within the area shown on Sheet 18.

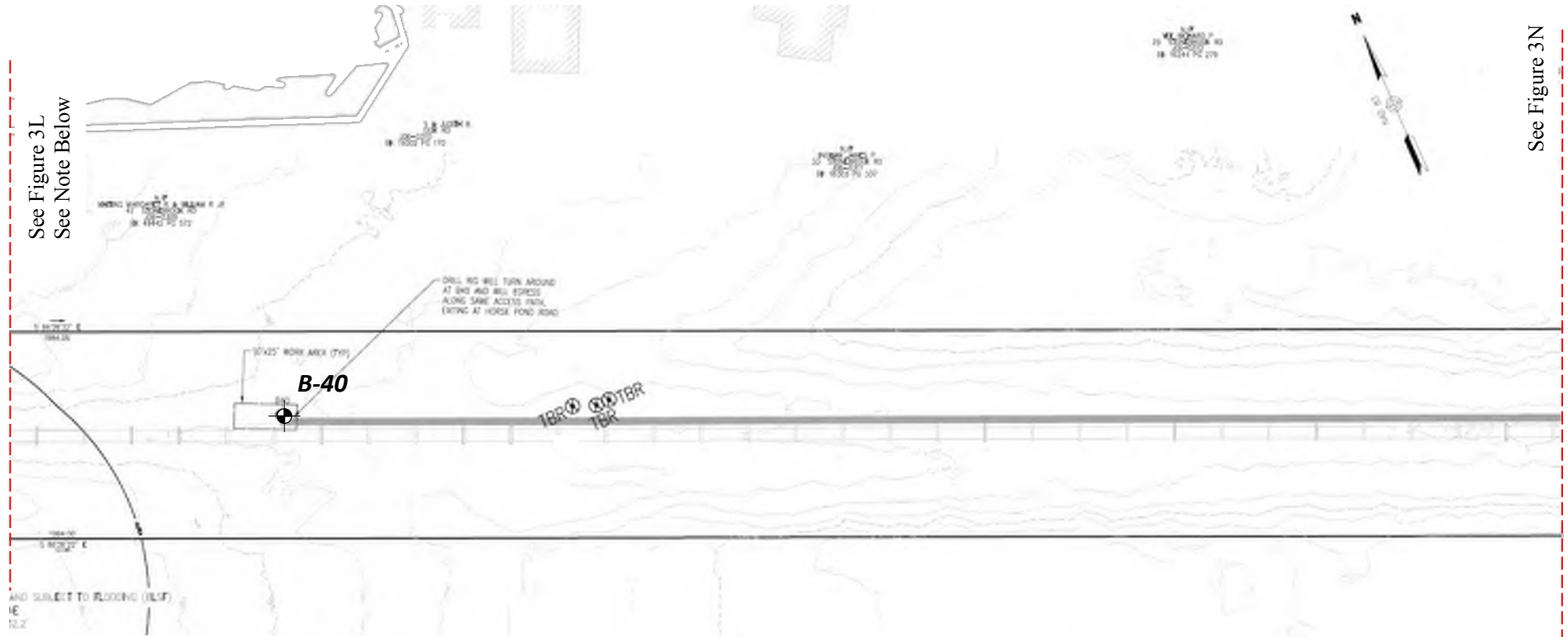
Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3L – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

See Figure 3L
See Note Below

See Figure 3N



Legend

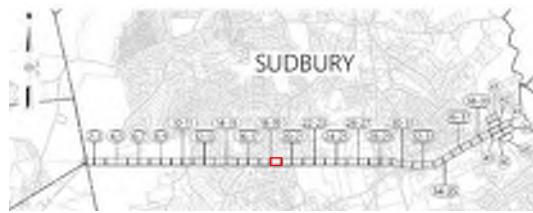
 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.




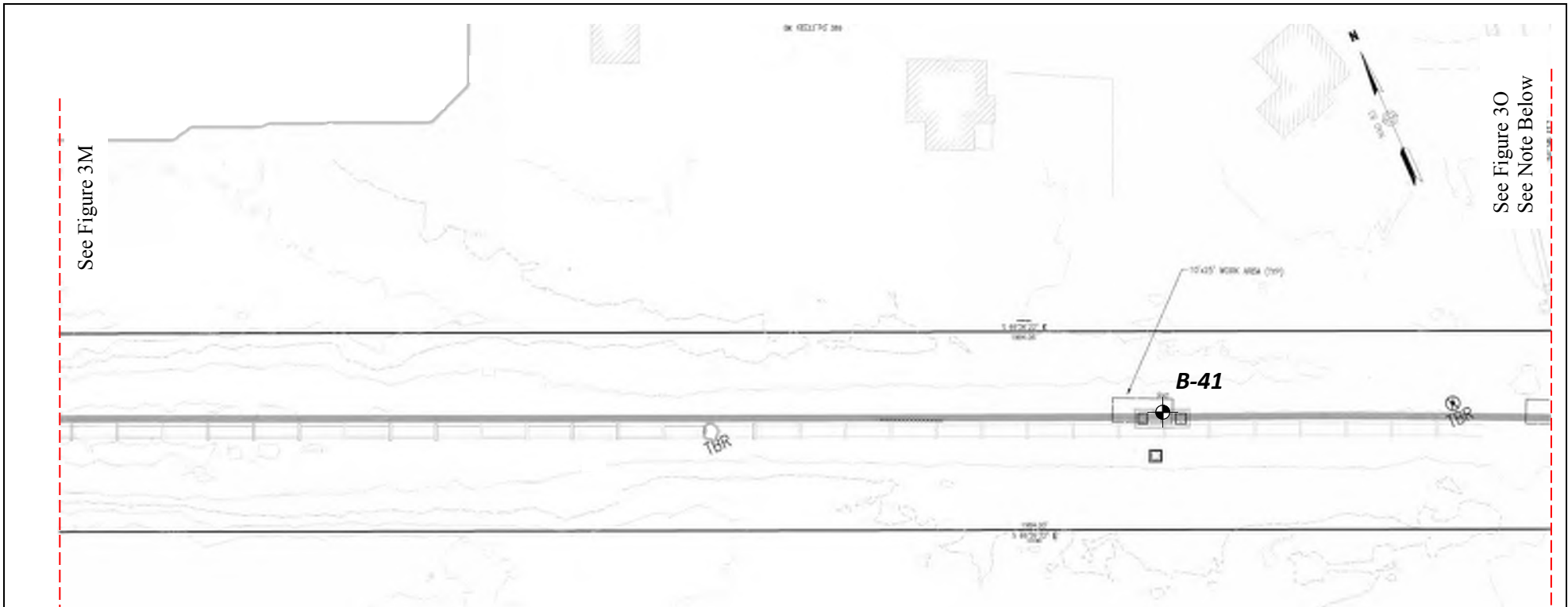
Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 18) were skipped because no geotechnical borings are located within the area shown on Sheet 18.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3M – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

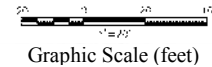


See Figure 3M

See Figure 3O
See Note Below

Legend

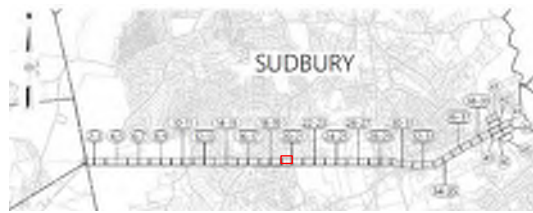
 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.




Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 21) was skipped because no geotechnical borings are located within the area shown on Sheet 21.

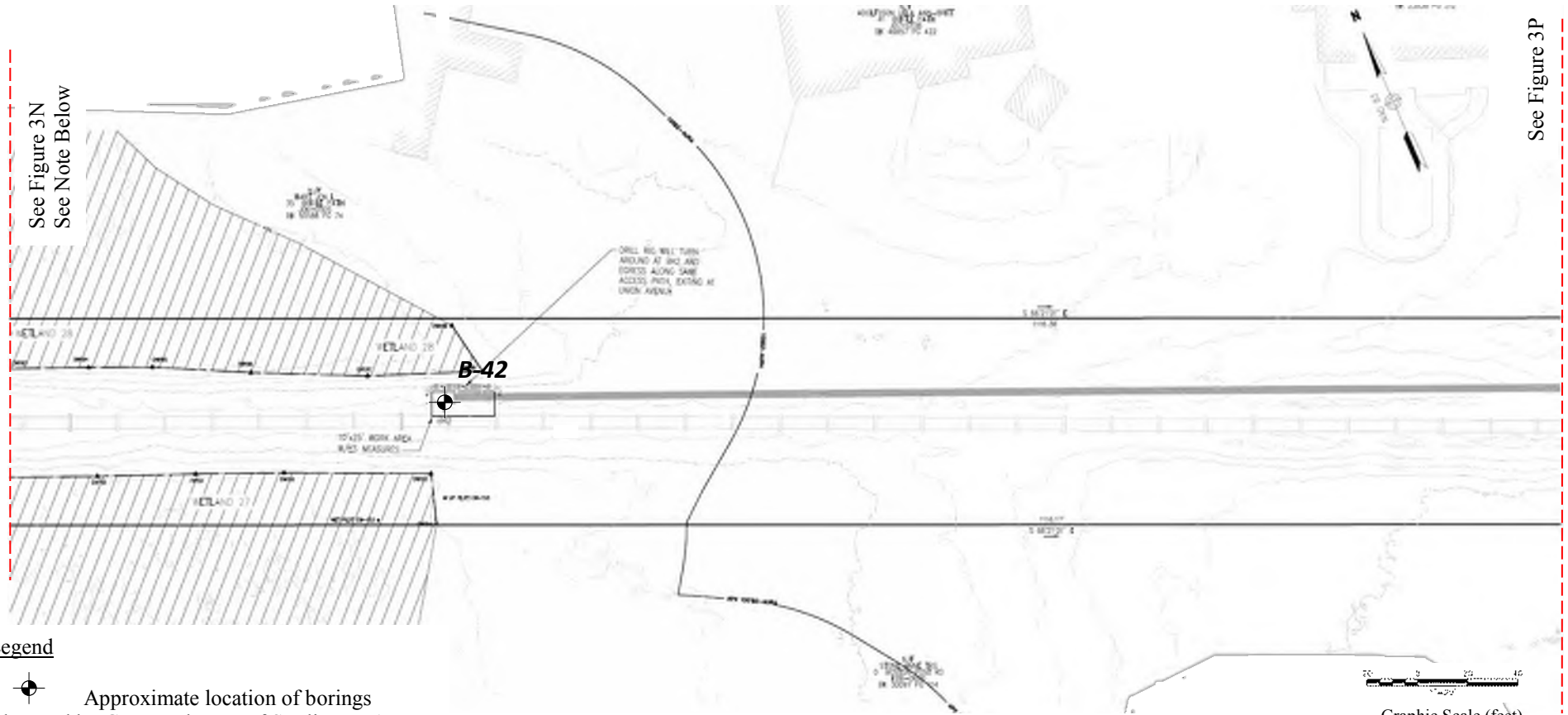
Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3N – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

See Figure 3N
See Note Below

See Figure 3P



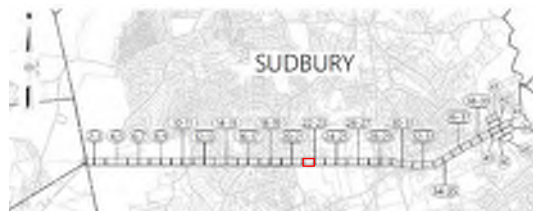
Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

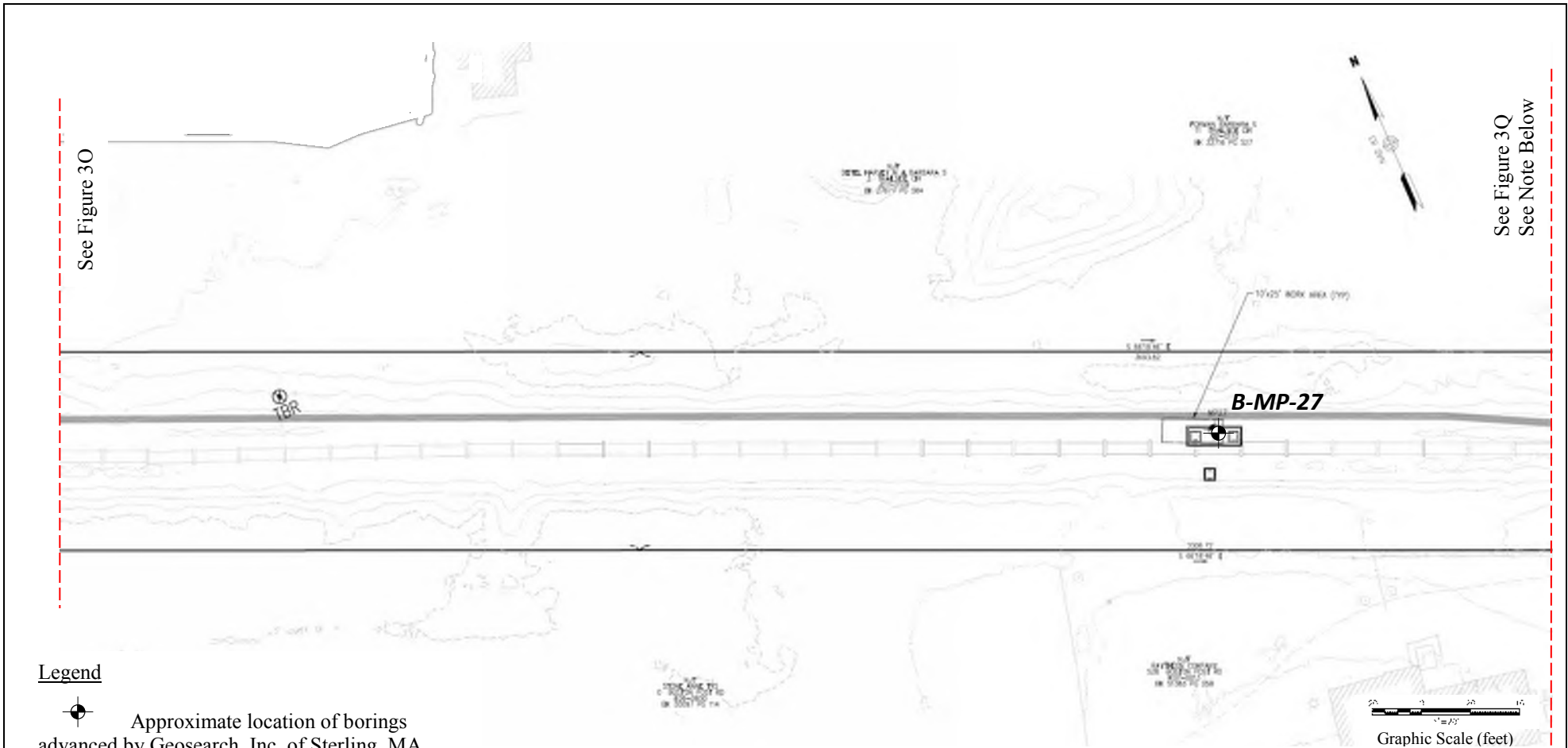
Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 21) were skipped because no geotechnical borings are located within the area shown on Sheet 21.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3O – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



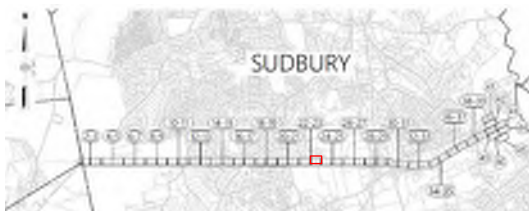
See Figure 3Q

See Figure 3Q
See Note Below

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

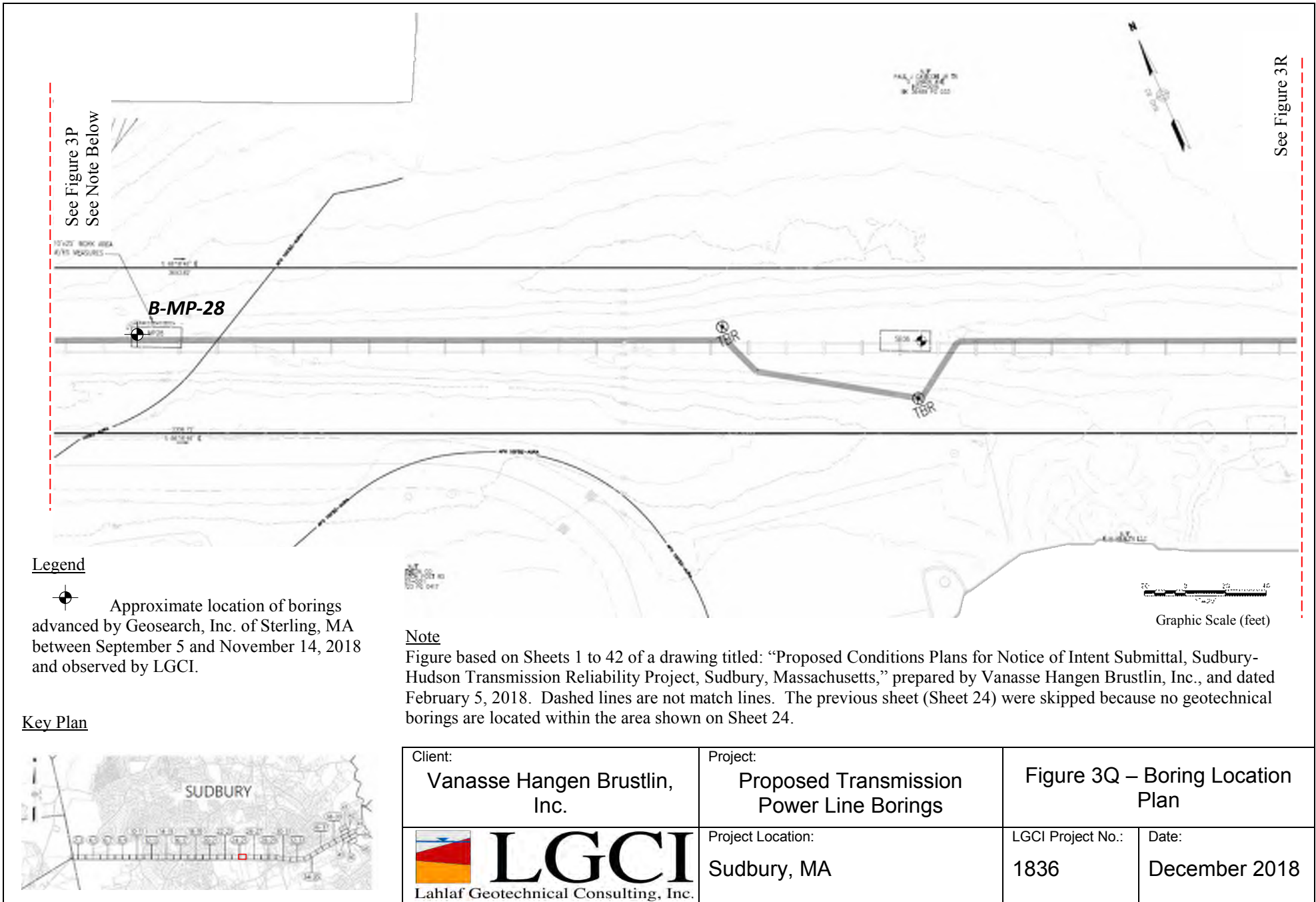
Key Plan



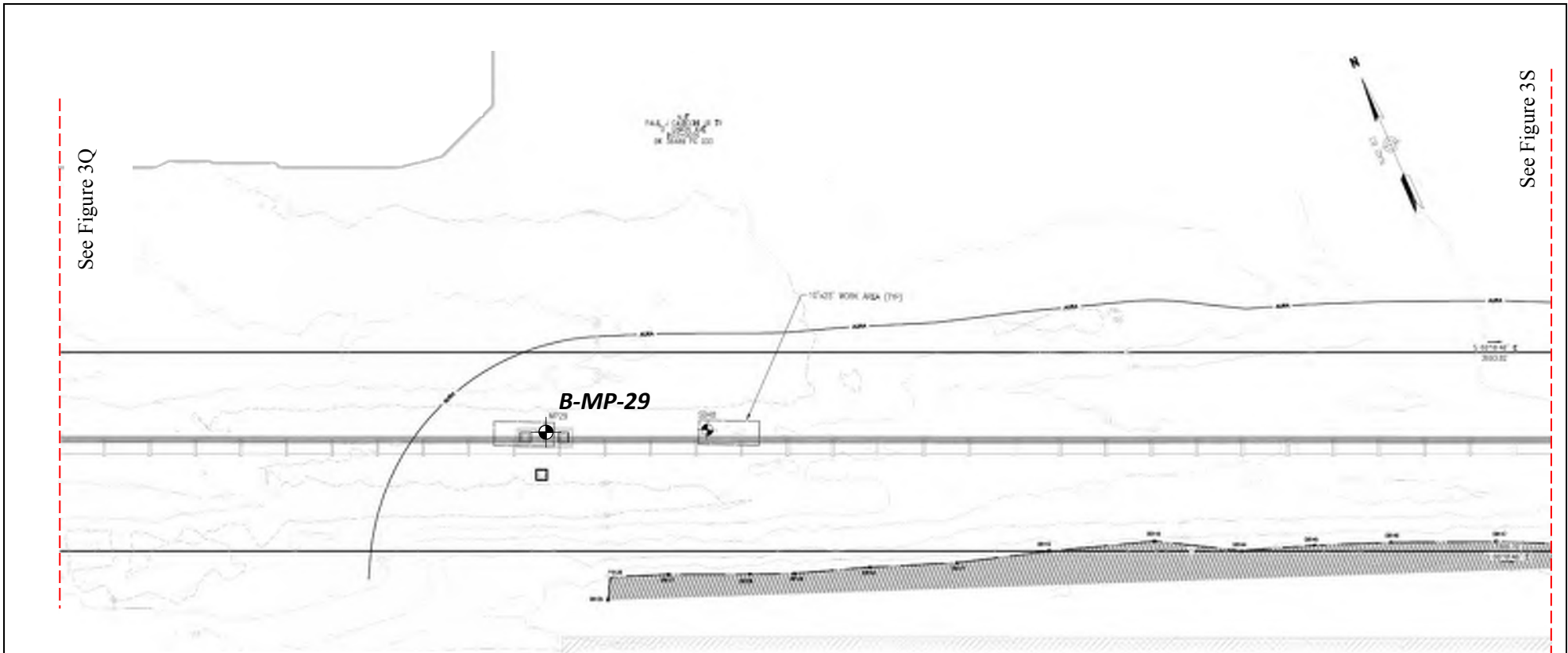
Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 24) was skipped because no geotechnical borings are located within the area shown on Sheet 24.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3P – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



See Figure 3R



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Key Plan



Note

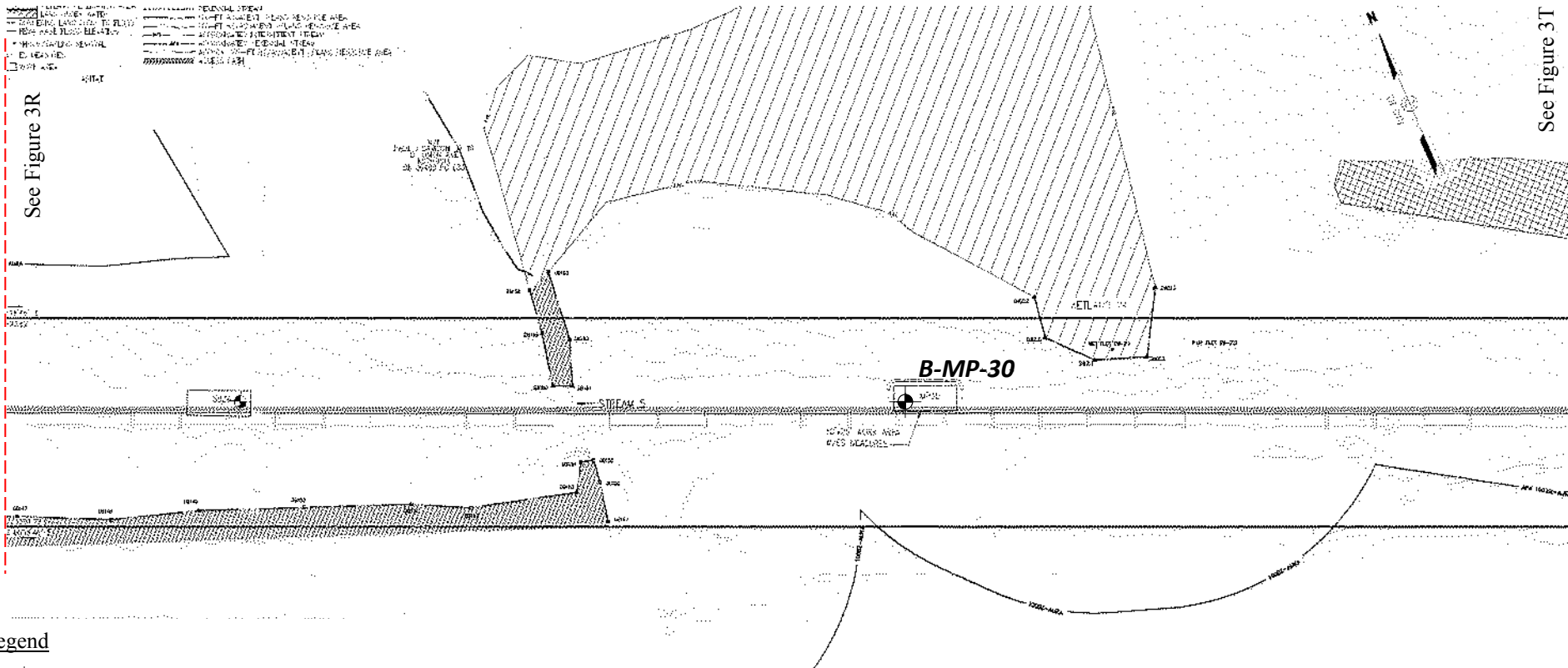
Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3R – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018


.....	PROPOSED TRANSMISSION LINE
.....	EXISTING TRANSMISSION LINE
.....	PROPOSED 400KV TRANSMISSION LINE
.....	EXISTING 400KV TRANSMISSION LINE
.....	PROPOSED 230KV TRANSMISSION LINE
.....	EXISTING 230KV TRANSMISSION LINE
.....	PROPOSED 115KV TRANSMISSION LINE
.....	EXISTING 115KV TRANSMISSION LINE
.....	PROPOSED 69KV TRANSMISSION LINE
.....	EXISTING 69KV TRANSMISSION LINE
.....	PROPOSED 33KV TRANSMISSION LINE
.....	EXISTING 33KV TRANSMISSION LINE
.....	PROPOSED 15KV TRANSMISSION LINE
.....	EXISTING 15KV TRANSMISSION LINE
.....	PROPOSED 4KV TRANSMISSION LINE
.....	EXISTING 4KV TRANSMISSION LINE
.....	PROPOSED 2KV TRANSMISSION LINE
.....	EXISTING 2KV TRANSMISSION LINE
.....	PROPOSED 1KV TRANSMISSION LINE
.....	EXISTING 1KV TRANSMISSION LINE
.....	PROPOSED 0.5KV TRANSMISSION LINE
.....	EXISTING 0.5KV TRANSMISSION LINE
.....	PROPOSED 0.2KV TRANSMISSION LINE
.....	EXISTING 0.2KV TRANSMISSION LINE
.....	PROPOSED 0.1KV TRANSMISSION LINE
.....	EXISTING 0.1KV TRANSMISSION LINE

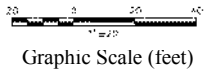
See Figure 3R

See Figure 3T



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

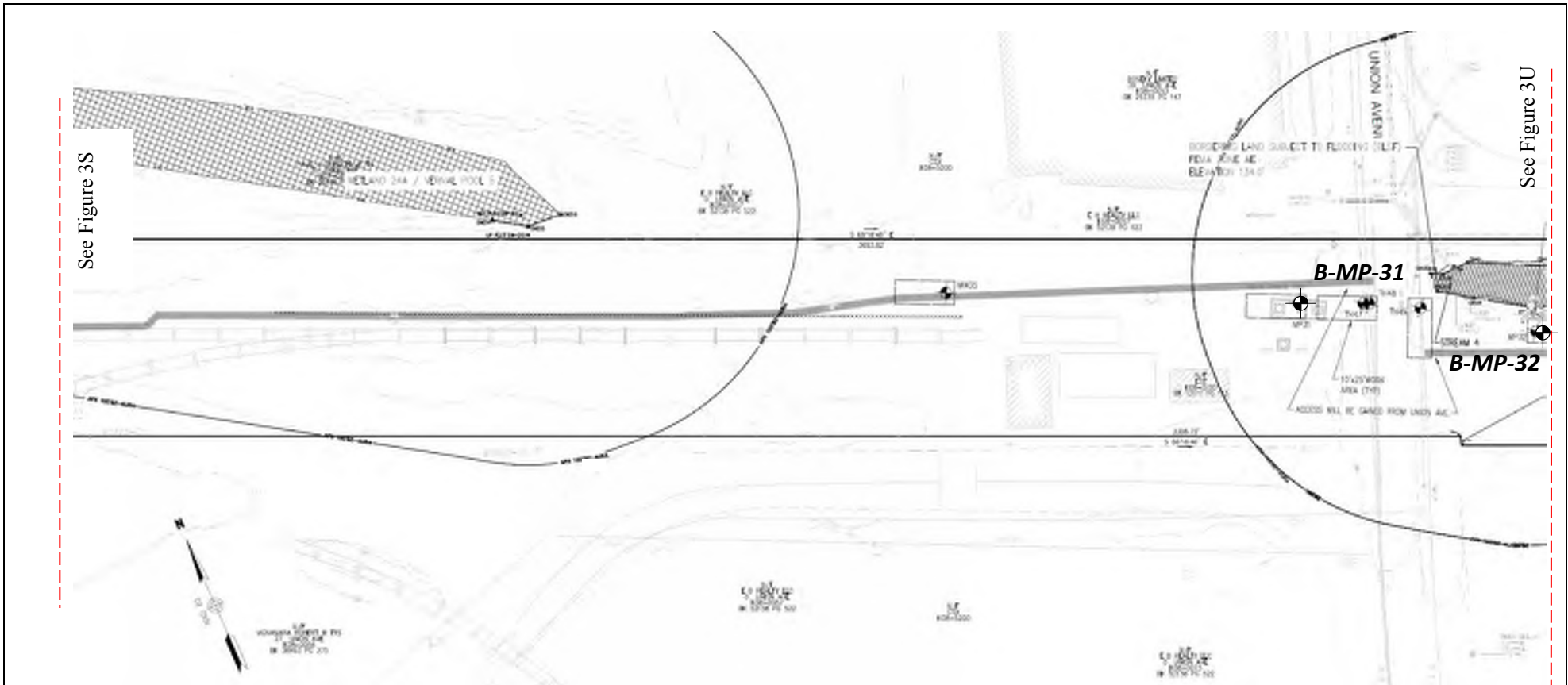


Note
Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

Key Plan



Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3S – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018




See Figure 3S

See Figure 3U

B-MP-31

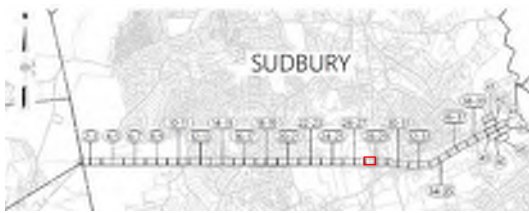
B-MP-32

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

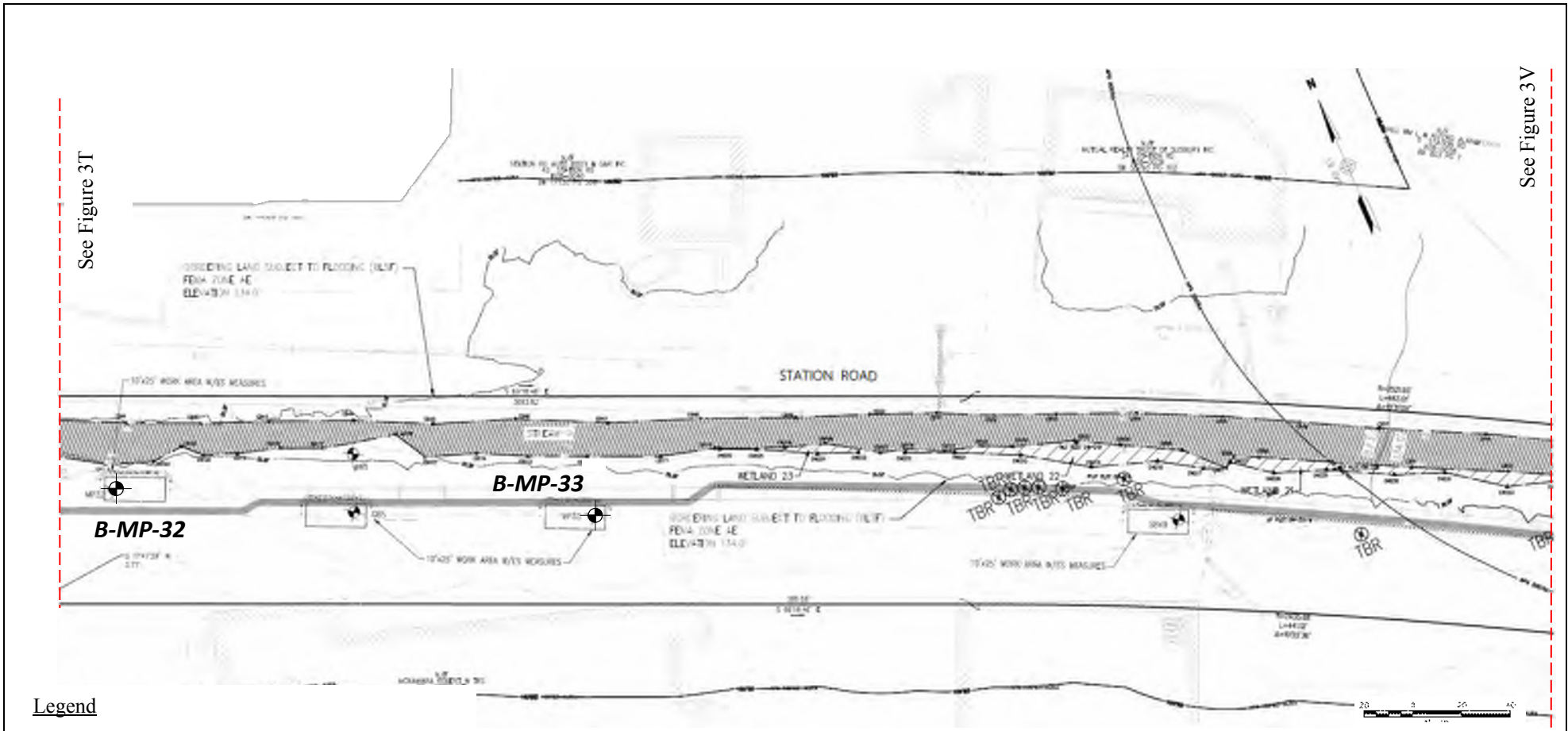


Key Plan



Note
 Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.


Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3T – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



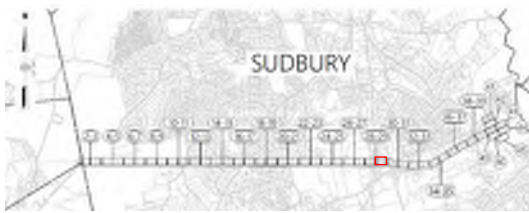
See Figure 3T

See Figure 3V

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Key Plan



Note

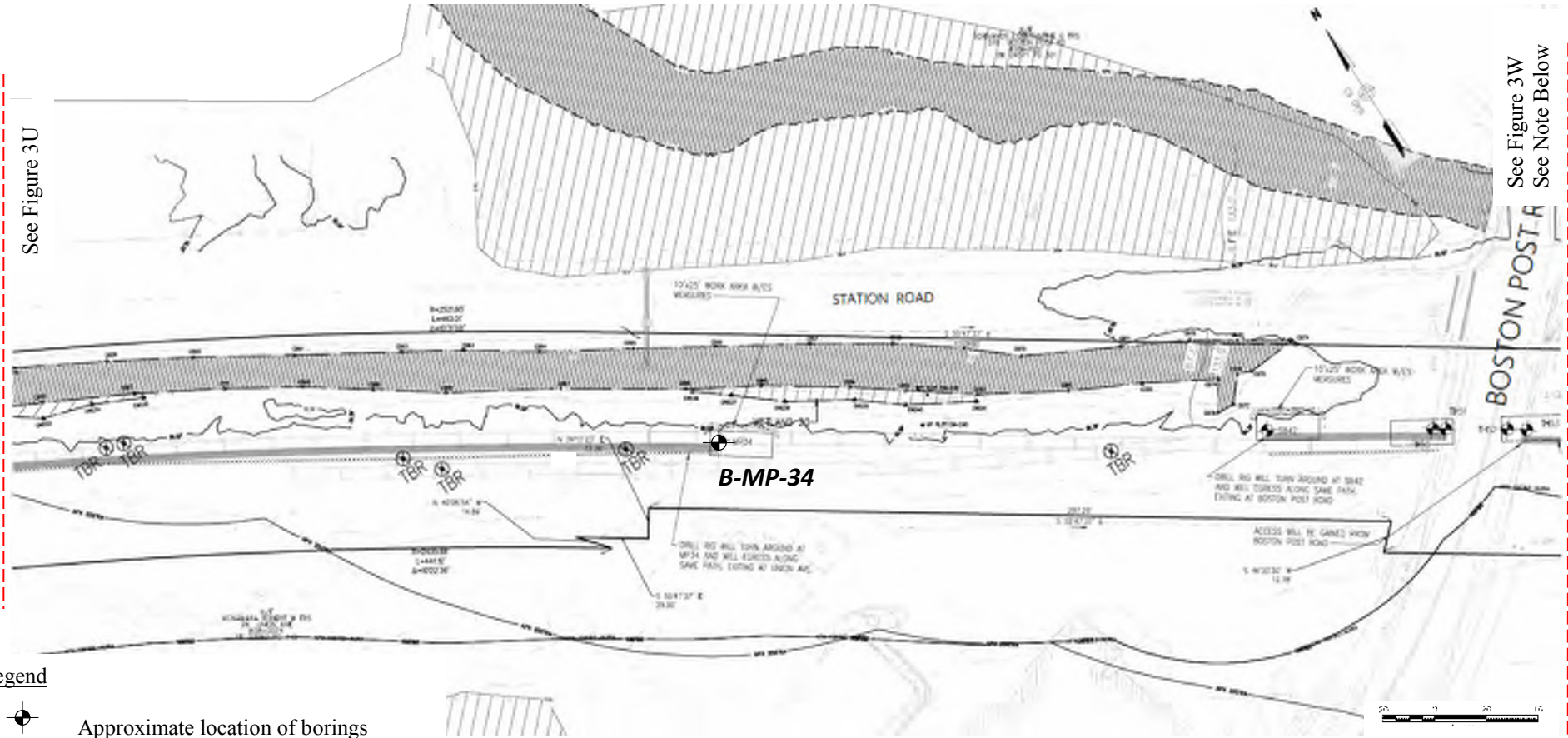
Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3U – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

Graphic Scale (feet)

See Figure 3U

See Figure 3W
See Note Below



Legend

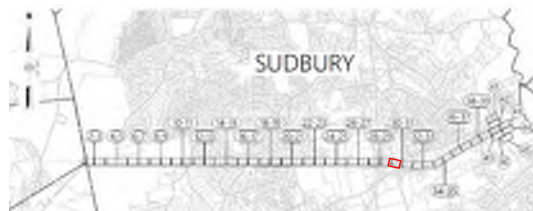
⊙ Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.




Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 31) was skipped because no geotechnical borings are located within the area shown on Sheet 31.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3V – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



See Figure 3V
See Note Below

See Figure 3X

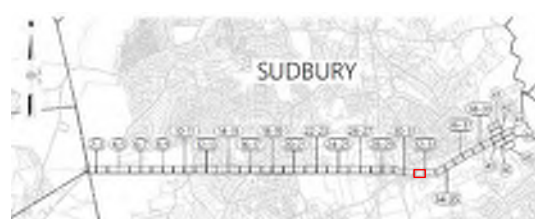
Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

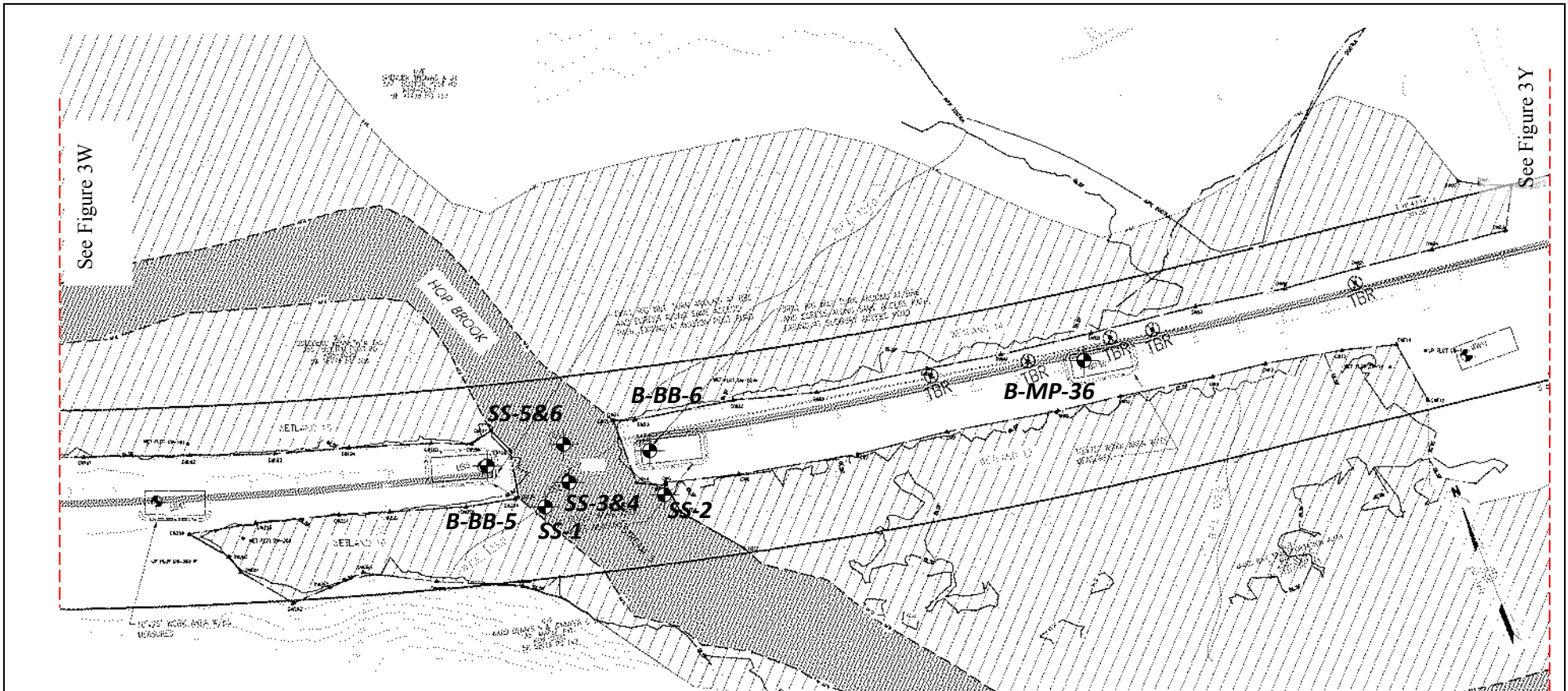
Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 31) were skipped because no geotechnical borings are located within the area shown on Sheet 31.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3W – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



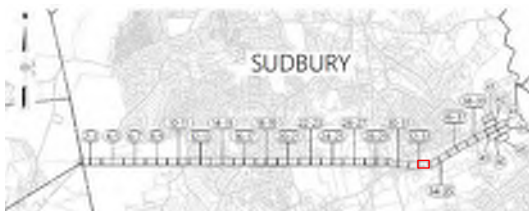
See Figure 3W

See Figure 3Y

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

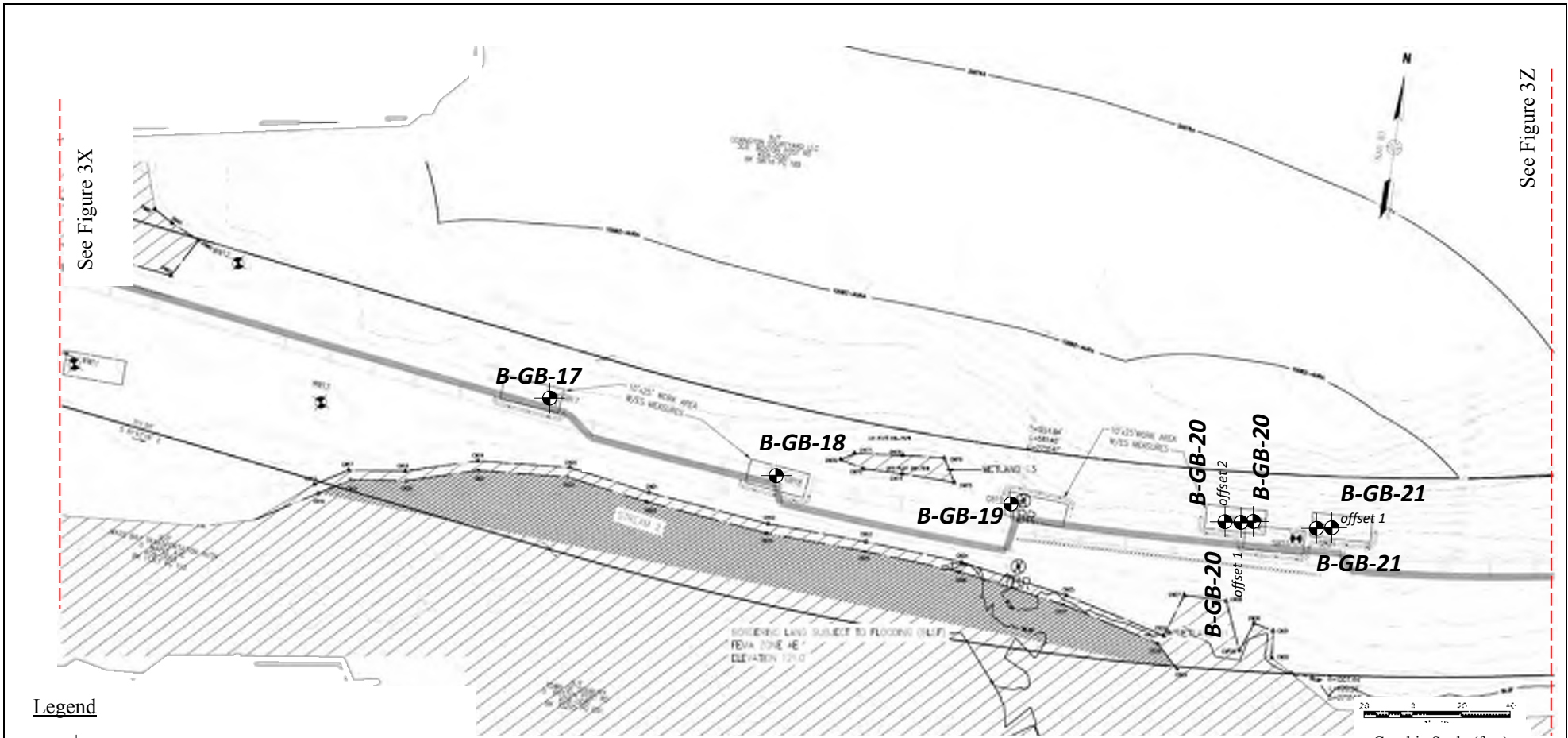
Key Plan



Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

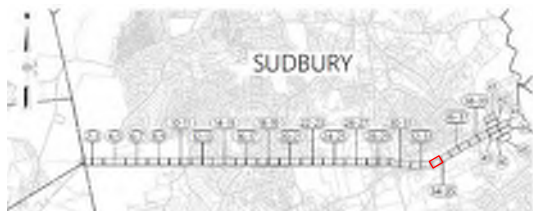
Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3X – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



Legend


● Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

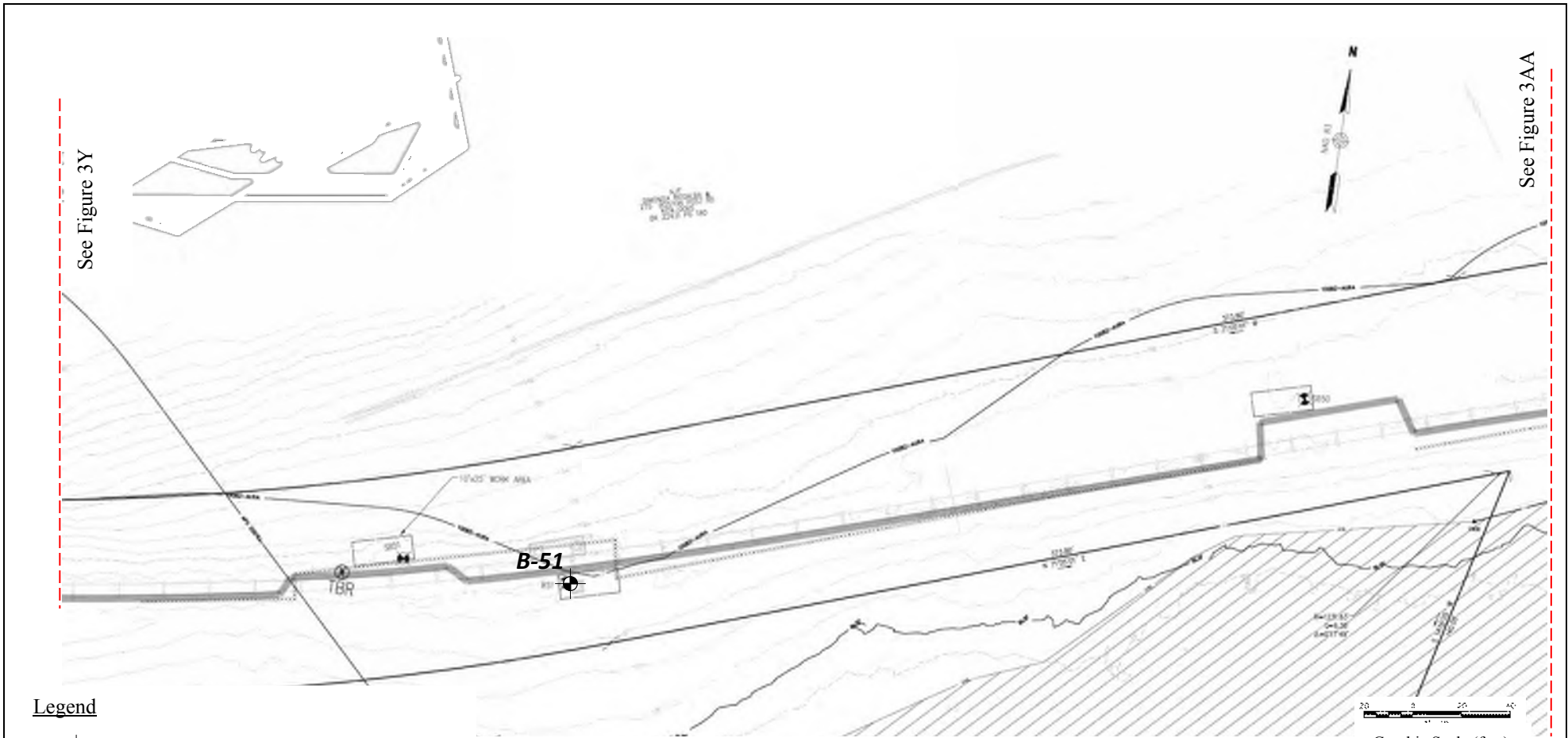
Key Plan



Note

Figure based on Sheets 1 to 42 of a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3Y – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



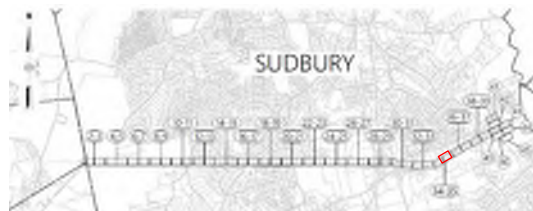
See Figure 3Y

See Figure 3AA

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

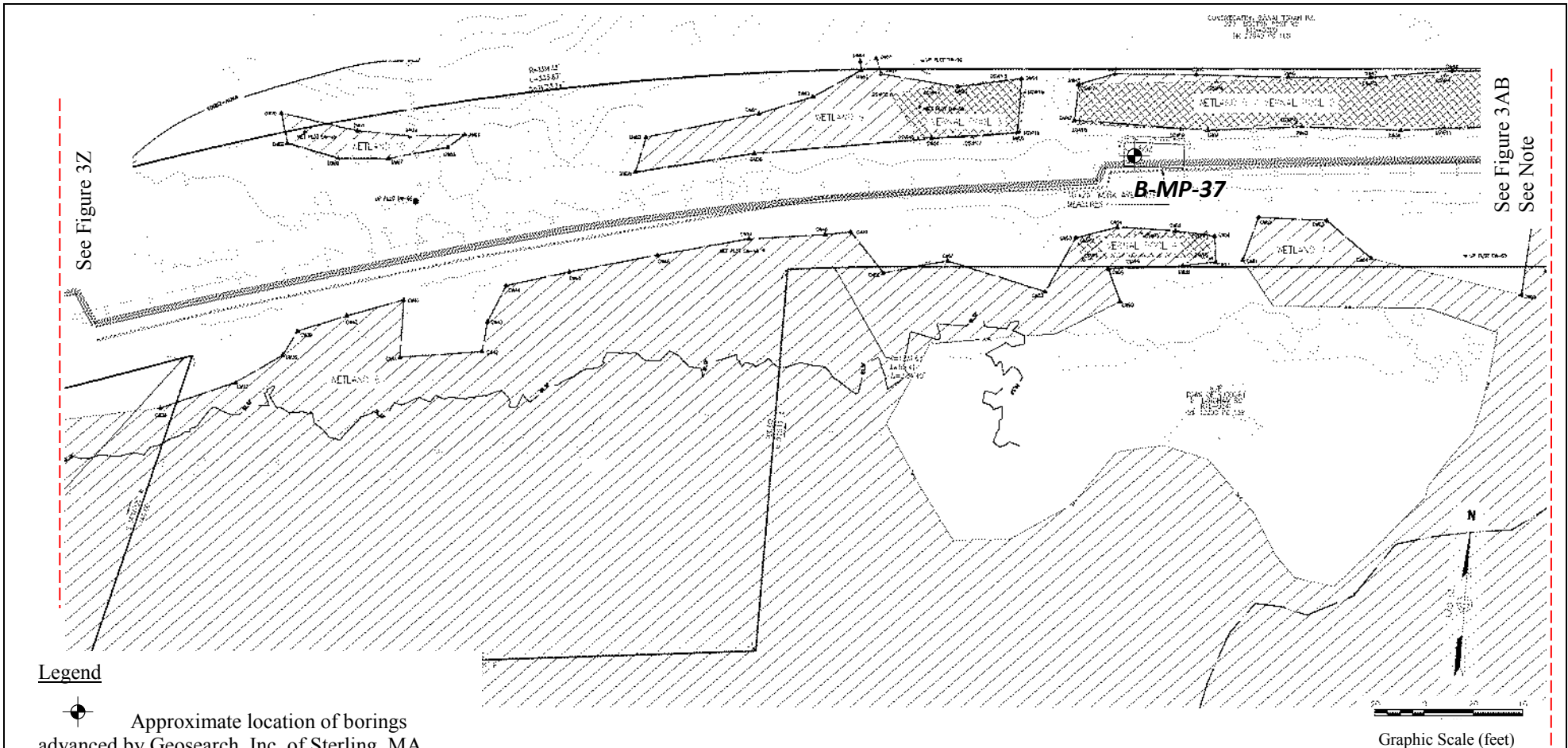
Key Plan




Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines.

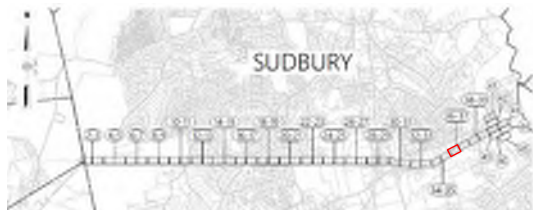
Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3Z – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Sudbury, MA		LGCI Project No.: 1836	Date: December 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

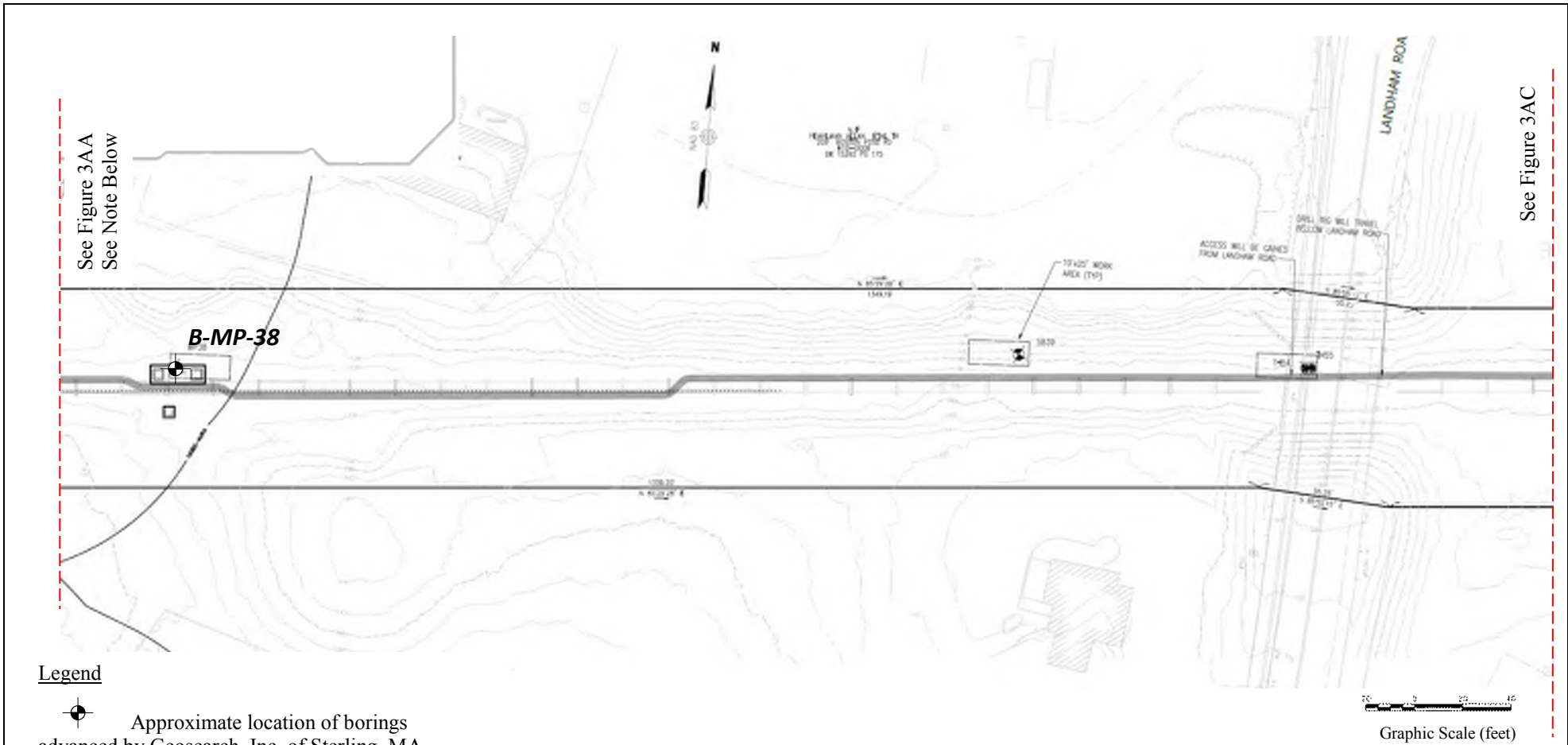
Key Plan




Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The subsequent sheet (Sheet 37) were skipped because no geotechnical borings are located within the area shown on Sheet 37.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3AA – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018



Legend

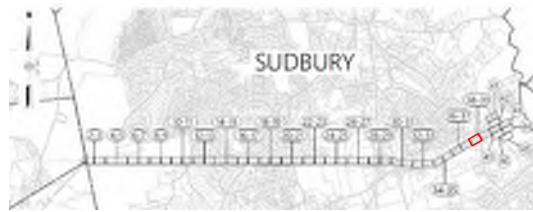

 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.




Note

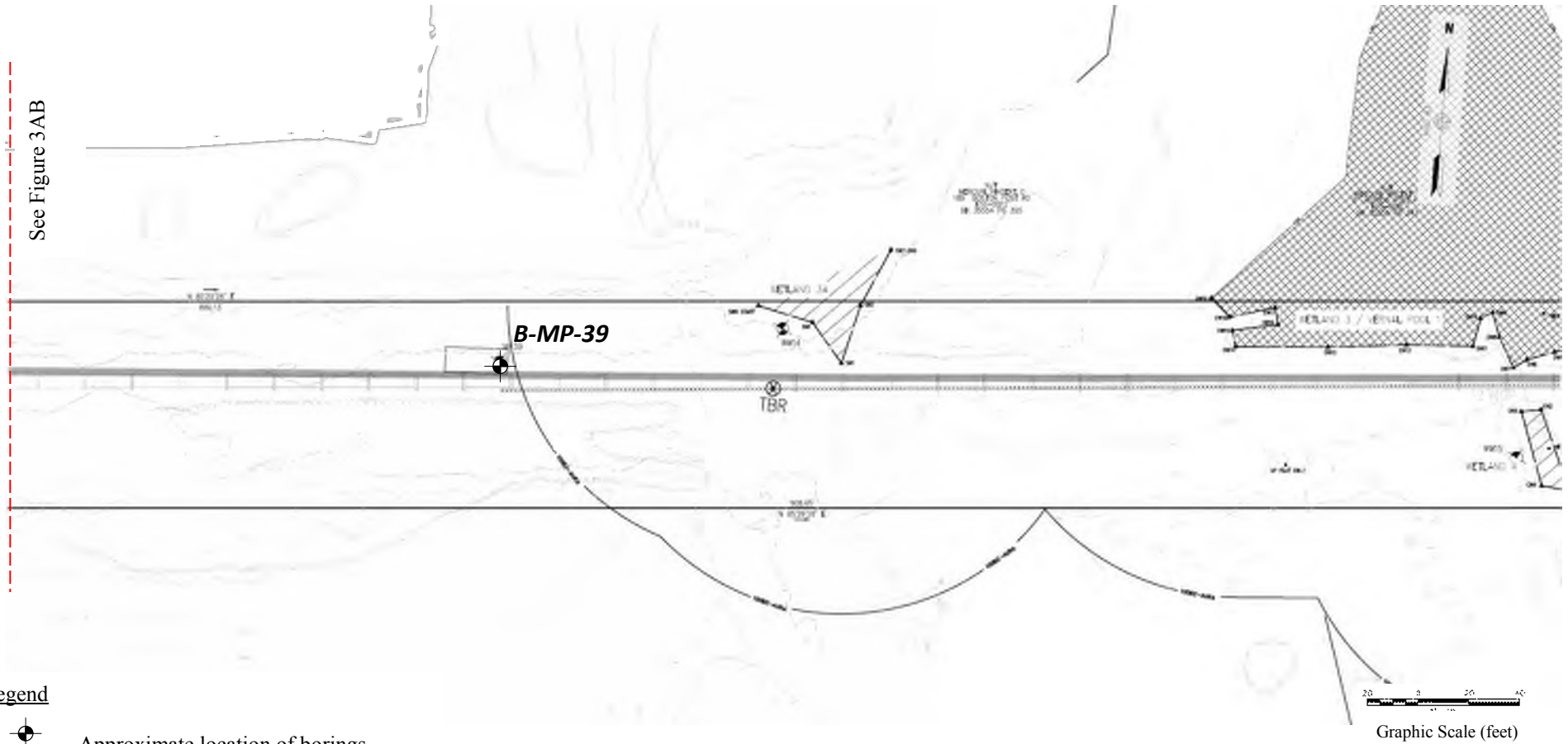
Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed lines are not match lines. The previous sheet (Sheet 37) were skipped because no geotechnical borings are located within the area shown on Sheet 37.

Key Plan




Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3AB – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

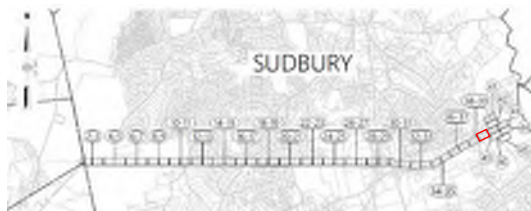
See Figure 3AB



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between September 5 and November 14, 2018 and observed by LGCI.

Key Plan



Note

Figure based on Sheets 1 to 42 of a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 5, 2018. Dashed line is not a match line.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3AC – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Sudbury, MA	LGCI Project No.: 1836	Date: December 2018

Appendix A - LGCI's Boring Logs



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/13/18 **DATE COMPLETED:** 11/13/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 198 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 5.4 ft. / El. 192.6 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material
		2	S1	3-2-7-2 (9)	24/17		Fill	Top 8": Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine gravel, trace organic fines, trace coal ash, dark brown, moist Bot. 7": Silty SAND (SM), fine, trace medium, ~20% fines, ~5% fine subangular gravel, trace organic fines, light brown, moist
	195.0		S2	19-33-62-59 (95)	24/20			S2 - Silty SAND (SM), fine, trace medium to coarse, ~20% fines, 0-5% fine gravel, light brown, moist
		4						S3 - Similar to S2
5			S3	15-50-64-71 (114)	24/21			▼
		6					Sand	S4 - Silty SAND (SM), fine, trace medium to coarse, ~15% fines, ~5% fine gravel, light brown, moist
	190.0	7.5						
		8						S5 - Well Graded SAND with Silt and Gravel (SW-SM), fine to medium, trace coarse, 10-15% fines, ~15% fine to coarse gravel, light brown, wet
			S5	13-26-18-14 (44)	24/10			
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	185.0							
15								
	180.0							
20								
	175.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



LGCI
Lahlaf Geotechnical Consulting, Inc.

100 Chelmsford Road, Suite 2
Billerica, MA 01862
Telephone: (978) 330-5912
Fax: (978) 330-5056

BORING LOG

B-29

PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/13/18 **DATE COMPLETED:** 11/13/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 192 ft. (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: 9.5 ft. / El. 182.5 ft. **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	Depth El. (ft.) 0.3 191.7
	190.0	2	S1	1-2-1-2 (3)	24/8		Fill	S1 - Top 3": Silty SAND (SM), fine to medium, 25-30% fines, trace organic fines, trace roots, dark brown, moist Bot. 5": Recovery was lost on forest ground, appears the same as S2
			S2	3-3-4-5 (7)	24/18			S2 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, trace organic fines, light brown, moist
		4				1	Sand	4.0 188.0
5			S3	3-5-8-16 (13)	24/19			REMARK 1: Heavy auger chatter from 4 feet to 8 feet. S3 - Silty SAND (SM), fine, trace medium, 20-25% fines, light brown, moist
	185.0	6	S4	29-29-20-17 (49)	24/16			S4 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 25-30% fine angular gravel, light brown to orange, moist
		8	S5	3-8-11-10 (19)	24/13			S5 - Silty GRAVEL with Sand (GM), fine to coarse, subangular, ~20% fines, ~35% fine to medium sand, light brown, wet
10		10						
	180.0	13						
			S6	3-7-21-26 (28)	24/10			S6 - Silty SAND with Gravel (SM), fine, 20-25% fines, ~20% fine to coarse gravel, light brown, wet
15		15						Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
	175.0							
20								
	170.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>11/14/18</u> DATE COMPLETED: <u>11/14/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>188 ft. (see note 1)</u> TOTAL DEPTH: <u>10 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>30s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>7.3 ft. / El. 180.8 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	
		0.5	S1	3-3-3-4 (6)	24/24		Sand	S1 - Top 6": Silty SAND (SM), fine to medium, trace organic fines, trace coal ash, trace roots, dark brown, moist Bot. 18": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, brown, moist S2 - Top 12": Similar to Bot. 18" of S1 Bot. 7": Silty SAND (SM), fine, ~20% fines, light brown, wet REMARK 1: Auger chatter from 4 feet to 8 feet. S3 - Top 8": Similar to Bot. 7" of S2 Bot. 9": Silty SAND (SM), fine, trace medium to coarse, 30-35% fines, 0-5% fine gravel, brown, wet
	185.0	2	S2	4-5-6-10 (11)	24/19			
5		4	S3	3-5-6-120/2" (11)	20/17	1		
		5.7						
	180.0	8	S4	11-19-26-25 (45)	24/24		S4 - Silty SAND (SM), fine to medium, trace coarse, 25-30% fines, 5-10% fine angular gravel, brown, wet	
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	175.0							
15								
	170.0							
20								
	165.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>11/14/18</u> DATE COMPLETED: <u>11/14/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>178 ft. (see note 1)</u> TOTAL DEPTH: <u>16 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>30s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>8.0 ft. / El. 170.0 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	0.5
			S1	4-3-3-4 (6)	24/20			177.5
	175.0	2	S2	5-6-8-9 (14)	24/22			
		4						
5			S5	3-9-9-8 (18)	24/19			
		6						
	170.0						Sand	
		9	S4	4-4-4-5 (8)	24/24			
10								
	165.0							
		14	S5	8-10-13-12 (23)	24/24			
15								
	160.0							
		16						16.0
	155.0							
20								
	155.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/14/18 **DATE COMPLETED:** 11/14/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 172 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 30s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** Not Encountered **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	S1 - Top 8": Silty SAND (SM), fine to medium, ~25% fines, trace organic fines, trace roots, trace coal ash, dark brown, moist Bot. 12": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, brown, moist
	170.0	2	S1	2-3-4-4 (7)	24/20		Sand	S2 - Similar to Bot. 12" of S1
		4	S2	6-6-6-8 (12)	24/19			S3 - Similar to Bot. 12" of S1
5		6	S3	4-5-6-7 (11)	24/18			S4 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, moist
	165.0	8	S4	8-7-7-9 (14)	24/19			S5 - Similar to S4
		10	S5	4-4-5-5 (9)	24/21			
		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	160.0							
15								
	155.0							
20								
	150.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>11/08/18</u> DATE COMPLETED: <u>11/08/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW, West of Dutton Road</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>170 ft. (see note 1)</u> TOTAL DEPTH: <u>17 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>50s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>12.5 ft. / El. 157.5 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Forest Mat	0.5	S1 - Encountered ~1 inches of forest mat material at ground surface
		0	S1	2-10-42-28 (52)	24/15		Topsoil	169.5	Top 5": Silty SAND (SM), fine to medium, 25-30% fines, trace coal ash, trace organic fines, trace roots, dark brown, moist
		2	S2	16-14-10-11 (24)	24/12		Fill		Mid. 4": Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~15% fine to coarse subangular gravel, trace organic fines, trace roots, brown, moist
		4							Bot. 5": Angular stone fragments
5	165.0		S3	4-13-12-15 (25)	24/18			4.9	REMARK 1: Heavy auger chatter from 2 feet to 4 feet.
		6	S4	28-27-24-20 (51)	24/19			165.1	S2 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 15-20% fine to coarse subangular gravel, trace organic fines, brown, moist
		8	S5	10-12-17-18 (29)	24/12				REMARK 2: Heavy auger chatter 4 feet to 8 feet.
10	160.0		S6	8-15-20-19 (35)	24/16		Sand		S3 - Top 5": Silty SAND (SM), fine to medium, 25-30% fines, 5-10% fine gravel, trace coal ash, trace organic fines, trace roots, dark brown, moist (Buried Topsoil)
		12							Mid. 6": Poorly Graded SAND with Silt and Gravel (SP-SM), fine, trace medium, 5-10% fines, 30-35% fine to coarse subangular gravel, trace organic fines, brown, moist
		15	S7	11-21-15-17 (36)	24/16				Bot. 7": Silty SAND (SM), fine, trace medium, 30-35% slightly plastic fines, trace fine subangular gravel, trace stone fragments, light brown, moist
		17							S4 - Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 30-35% fine to coarse subangular gravel, brown, moist
									S5 - Silty GRAVEL with Sand (GM), fine to coarse, angular, ~25% fines, ~35% fine to coarse sand, light brown, wet
15	155.0								REMARK 3: Heavy auger chatter from 10 feet to 15 feet.
									S6 - Silty SAND with Gravel (SM), fine to medium, ~25% fines, ~15% fine subangular gravel, light brown, wet
									▽
									S7 - Similar to S6, fine to coarse, 20-25% fines
								17.0	Bottom of borehole at 17.0 feet. Backfilled borehole with drill cuttings.
20	150.0								
25	145.0								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/08/18 **DATE COMPLETED:** 11/08/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, West of Dutton Road **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 176 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** Not Encountered **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	175.0	0	S1	8-4-1-2 (5)	24/13		Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
		2	S2	4-7-4-3 (11)	24/15		Topsoil	Top 5": Silty SAND (SM), fine to medium, 25-30% fines, trace coal ash, trace organic fines, trace roots, dark brown, moist Bot. 6": Silty SAND (SM), fine to coarse, ~20% fines, 0-5% fine angular gravel, trace organic fines, light brown, moist
		4	S3	3-3-3-3 (6)	24/7	1	Fill	REMARK 1: Auger chatter from 4 feet to 8 feet. S3 - Similar to Bot. 6" of S1, trace wood
5		6	S4	3-10-13-15 (23)	24/14			S4 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~15% fine to coarse subangular gravel, trace coal ash, trace rock powder, trace organic fines, orange, moist
	170.0	8	S5	25-39-31-27 (70)	24/10		Sand	S5 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to coarse, 5-10% fines, 30-35% fine to coarse subangular gravel, angular stone fragments, brown, moist
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	165.0							
15								
	160.0							
20								
	155.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>09/06/18</u> DATE COMPLETED: <u>09/06/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>182 ft. (see note 1)</u> TOTAL DEPTH: <u>8 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>90s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>Not Encountered</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Fill	Depth El. (ft.) 1.3
	180.0	2	S1	6-5-17-42 (22)	24/24		Sand	S1 - Top 15": Silty SAND (SM), fine to medium, trace coarse, 15-20% fines, ~5% fine subrounded gravel, trace organic fines, trace roots, trace coal, brown to orange, moist
			S2	33-43-26-22 (69)	24/16			Bot. 9": Poorly Graded SAND with Silt and Gravel (SP-SM), fine to coarse, ~10% fines, ~25% fine to coarse subrounded to subangular gravel, light brown, moist
5		4	S3	6-16-38-78 (54)	24/12			S2 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 15-20% fine to coarse subangular gravel, light brown to orange, moist
		6	S4	36-84	12/8			S3 - Similar to S2, 10-15% fines
	175.0	7						S4 - Silty SAND with Gravel (SM), fine to coarse, ~15% fines, ~20% fine to coarse subangular gravel, angular stone fragments, gray, moist
								REMARK 1: Heavy drill chatter from 7 feet to 8 feet.
								REMARK 2: Encountered auger refusal at 8 feet.
								Bottom of borehole at 8.0 feet. Backfilled borehole with drill cuttings.
10								
	170.0							
15								
	165.0							
20								
	160.0							
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 09/05/18 **DATE COMPLETED:** 09/07/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** HSA (4-1/4" I.D.) then 3-inch casing
SURFACE EI.: 184 ft. (see note 1) **TOTAL DEPTH:** 10.5 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 90s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▽ **AT END OF DRILLING:** 4.0 ft. / El. 180.0 ft. **CORE BARREL SIZE:** NX
 ▽ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Fill	
			S1	4-5-10-21 (15)	24/20			S1 - Top 13": Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, ~10% fines, ~5% fine subangular gravel, trace organic fines, trace roots, trace coal, brown, moist
2			S2	61-55-65	18/14			Bot. 7": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 10-15% fines, trace fine subangular gravel, light brown, moist
3.5	180.0						Sand	
4			S3	120/4"	4/3			REMARK 1: Heavy drill chatter from 4 feet to 6 feet.
4.3								S3 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, 15-20% fine subangular gravel, trace organic fines, brown, moist
5			S4	42-78/2"	8/3			S4 - Similar to S3, angular stone fragments, light brown
5.7								REMARK 2: Encountered auger refusal at 6 feet. Switched to 3-inch casing at 6 feet.
7							Bedrock	
			C1		24/21			C1 - min/ft: 5.3, 4.5 Hard, slightly weathered, slightly fractured, fine-grained, gray with black mottles, GRANITE Rec = 87.5%, RQD = 85.7%
9	175.0							
10			C2		18/11			C2 - min/ft: 11.6, 16.7/6" Hard, slightly weathered, slightly fractured, fine-grained, gray with black mottles, GRANITE Rec = 61.1% , RQD = 72.7%
10.5								Bottom of borehole at 10.5 feet. Backfilled borehole with drill cuttings. and one bag of sand.
15	170.0							
20	165.0							
25	160.0							

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/12/18 **DATE COMPLETED:** 11/12/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 192 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: Not Encountered **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
	190.0	2	S1	2-3-2-5 (5)	24/22		Topsoil	Top 10": Silty SAND (SM), fine to medium, 25-30% fines, trace coal ash, trace organic fines, trace roots, trace wood, dark brown, moist Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 5-10% fines, trace fine subrounded gravel, trace organic fines, brown, moist
			S2	5-5-5-5 (10)	24/8		Fill	S2 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, light brown, moist
5			S3	5-4-4-5 (8)	24/15	S3 - Similar to S2, 5-10% fines		
	185.0		S4	4-4-4-4 (8)	24/21	S4 - Similar to S2, 5-10% fines		
			S5	2-3-2-3 (5)	24/20	S5 - Similar to S2, 5-10% fines		
10		10						
	180.0							
15								
	175.0							
20								
	170.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/12/18 **DATE COMPLETED:** 11/12/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 196 ft. (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: 15.0 ft. / El. 181.0 ft. **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	195.0	0	S1	2-3-3-7 (6)	24/18		Forest Mat Topsoil	S1 - Encountered ~2 inches of forest mat material at ground surface Top 6": Coal ash, trace organic fines, trace roots, trace wood, dark brown, moist (Topsoil)
		2	S2	5-5-22-16 (27)	24/10		Fill	Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, trace fine to coarse subrounded gravel, trace organic fines, brown, moist S2 - Similar to Bot. 10" of S1, no gravel
		4	S3	41-8-10-10 (18)	24/9	1		REMARK 1: Heavy auger chatter from 4 feet to 8 feet. S3 - Similar to Bot. 10" of S1
5		6	S4	6-5-3-5 (8)	24/20			S4 - Top 9": Similar to Bot. 10" of S1 Bot. 11": Silty SAND (SM), fine, 15-20% fines, trace organic fines, orange and dark brown, moist
	190.0	8	S5	3-4-6-8 (10)	24/20			S5 - Top 12": Poorly Graded SAND (SP), fine, ~5% fines, light brown, moist Bot. 8": Well Graded SAND (SW), fine to coarse, ~5% fines, brown, moist
10		10	S6	5-9-7-7 (16)	24/20			S6 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, moist
	185.0	12	S7	8-8-9-9 (17)	24/20			S7 - Similar to S6
		14	S8	4-5-5-5 (10)	24/20			S8 - Similar to S6
15		16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
	180.0							
20								
	175.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/09/18 **DATE COMPLETED:** 11/09/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, East of Pakham Road **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Drive and wash with 3-inch casing
SURFACE EI.: 158 ft. (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ **DURING DRILLING:** 9.5 ft. / El. 148.5 ft. **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
		0.8	S1	2-4-6-6 (10)	24/24		Topsoil	Top 7": Silty SAND (SM), fine to medium, ~25% fines, trace coal ash, trace organic fines, trace roots, dark brown, moist
	155.0	2	S2	3-3-5-5 (8)	24/19		Fill	Bot. 15": Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, trace organic fines, orange, moist
		4	S3	3-3-4-5 (7)	24/21			S2 - Silty SAND (SM), fine, trace medium, ~25% fines, trace organic fines, trace roots, brown, moist
5		6	S4	7-9-10-11 (19)	24/20			S3 - Similar to S2, no roots
	150.0	8	S5	5-7-10-11 (17)	24/15		Sand	S4 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, moist
		10						S5 - Similar to S4, wet
10		13	S6	8-7-6-11 (13)				S6 - Similar to S4
	145.0	15						Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
	140.0							
20								
	135.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>09/06/18</u> DATE COMPLETED: <u>09/06/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>162 ft. (see note 1)</u> TOTAL DEPTH: <u>10 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>90s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>9.0 ft. / El. 153.0 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Fill	1.5	S1 - Top 18": Silty SAND (SM), fine, trace medium to coarse, 25-30% fines, trace fine subrounded gravel, trace organic fines, trace roots, brown to orange, moist
	160.0	2	S1	2-2-2-1 (4)	24/23		Sand	160.5	Bot. 5": Silty SAND (SM), fine, ~20% fines, trace organic fines, light brown to orange, moist S2 - Similar to Bot. 5" of S1, light brown
		4	S2	3-2-2-2 (4)	24/12			S3 - Similar to Bot. 5" of S1, light brown with orange mottles	
5		6	S3	2-2-6-7 (8)	24/19			S4 - Silty SAND (SM), fine, ~20% fines, light brown, moist	
	155.0	8	S4	12-9-10-9 (19)	24/12			S5 - Silty SAND (SM), fine, ~20% fines, light brown with orange mottles, moist	
		10	S5	8-9-11-13 (20)	24/18				
10		10						10.0	Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	150.0								
15									
	145.0								
20									
	140.0								
25									

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 09/06/18 **DATE COMPLETED:** 09/06/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 168 ft. (see note 1) **TOTAL DEPTH:** 17 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 90s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: 9.0 ft. / El. 159.0 ft. **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Forest Mat	S1 - Encountered ~2 inches of forest mat material.
			S1	4-6-8-9 (14)	24/20		Fill	Top 12": Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 10-15% fines, trace fine subangular gravel, trace organic fines, trace roots, brown to orange, moist Bot. 8": Silty SAND (SM), fine, ~15% fines, trace fine subrounded gravel, light brown, moist
2	165.0		S2	8-7-9-9 (16)	24/14		Sand	S2 - Silty SAND (SM), fine to medium, 15-20% fines, orange, moist
4			S3	7-8-8-7 (16)	24/15			S3 - Similar to S2, moist to wet
6			S4	7-6-8-7 (14)	24/17			S4 - Silty SAND (SM), fine, ~20% fines, light brown, wet
8	160.0		S5	4-6-5-6 (11)	24/15			S5 - Similar to S4, ~30% fines
10			S6	2-4-5-3 (9)	24/9			S6 - Similar to S4, 20-25% fines
12	155.0							
15			S7	5-4-3-4 (7)	24/5			S7 - Similar to S4, ~25% fines
17	150.0							Bottom of borehole at 17.0 feet. Backfilled borehole with drill cuttings.
20								
	145.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/02/18 **DATE COMPLETED:** 11/02/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, East of Horse Pond Road **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 162 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▽ **AT END OF DRILLING:** 9.3 ft. / El. 152.7 ft. **CORE BARREL SIZE:** NA
 ▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
	160.0	2	S1	3-2-3-2 (5)	24/22		Fill	Top 6": Silty SAND (SM), fine to medium, trace coarse, 25-30% fines, trace roots, black, moist Bot. 14": Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, trace organic fines, light brown, moist S2 - Similar to Bot. 14" of S1
			S2	2-2-3-4 (5)	24/18			S3 - Silty SAND (SM), fine, 15-20% fines, trace organic fines, trace coal ash, light brown to orange, moist
5		4	S3	4-5-5-6 (10)	24/21			S4 - Top 12": Poorly Graded SAND with Silt (SP-SM), fine to medium, ~10% fines, trace organic fines, trace roots, light brown to orange, wet
	155.0	6	S4	8-7-8-8 (15)	24/22			Bot. 10": Silty SAND (SM), fine, 35-40% fines, gray, wet
		8	S5	6-9-7-9 (16)	24/17			S5 - Similar to Bot. 10" of S4
10		10					Sand	▽ Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	150.0							
15								
	145.0							
20								
	140.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/24/18</u> DATE COMPLETED: <u>10/24/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>128 ft. (see note 1)</u> TOTAL DEPTH: <u>16 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>50s/ Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>6.0 ft. / El. 122.0 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0.4							Encountered a 5 inch wood rail tie.
		2.4	S1	21-17-20-18 (37)	24/15		Fill		S1 - Top 4": Coal ash, trace slag, trace fine sand, trace organic fines, trace roots, trace wood, black, moist
	125.0	2	S2	13-22-20-17 (42)	24/4			Bot. 11": Well Graded SAND with Silt (SW-SM), fine to coarse, 5-10% fines, 5-10% fine subangular gravel, trace organic fines, trac wood, brown, moist	
5		4	S3	8-14-11-10 (25)	24/0			S2 - Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, trace organic fines, light brown, moist	
		6	S4	3-9-15-18 (24)	24/9			S3 - No recovery	
	120.0	8	S5	4-8-9-12 (17)	24/24		Sand	8.4	▽ S4 - SILT with Sand (ML), moderately plastic, ~15% fine sand, trace coal ash, trace organic fines, trace roots, light brown, moist
10		10	S6	6-9-7-8 (16)	24/18			119.6	S5 - Top 5": Similar to S4, slightly to moderately plastic, wet
		12	S7	4-7-8-8 (15)	24/18			Bot. 19": SILT with Sand (ML), slightly to moderately plastic, ~20% fine sand, gray, wet	
	115.0	14	S8	4-4-4-6 (8)	24/17			S6 - Similar to Bot. 19" of S5, ~25% fine sand	
15		16							S7 - Similar to Bot. 19" of S5
									S8 - Similar to Bot. 19" of S5, moderately plastic
	110.0								Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
20									
	105.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/08/18</u> DATE COMPLETED: <u>10/10/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>Western side of Hop Brook Bridge</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Drive and wash with 4-inch casing, then 3" casing</u>
SURFACE EI.: <u>125 ft. (see note 1)</u> TOTAL DEPTH: <u>54 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>70s / Partly Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>4.0 ft. / El. 121.0 ft. measured on 10/9/18</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>3.5 ft. / El. 121.5 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>3.2 ft. / El. 121.8 ft. measured on 10/10/18</u>	LOGGED BY: <u>TS / KD</u> CHECKED BY: <u>NB</u>

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Top 2": Forest material
		2	S1	4-3-5-4 (8)	24/24		Fill	Bot. 22": Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, moist
		4	S2	3-1-1-1 (2)	24/13			S2 - Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, wet
5	120.0	6	S3	3-1-3-3 (4)	24/14			S3 - Similar to S2, ~35% fines
		8	S4	3-2-4-4 (6)	24/11			S4 - Similar to S2, 35-40% fines
		10	S5	4-2-5-5 (7)	24/15		Swamp Deposits	S5 - Similar to S2, ~25% fines
	115.0	12	S6	3-3-6-7 (9)	24/15			S6 - Top 12": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, wet Bot. 3": Well Graded SAND with Silt (SW-SM), fine to medium, trace coarse, 5-10% fines, light brown to gray, wet
		13						
		15	S7	3-1-1-3 (2)	24/11			S7 - Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine angular gravel, trace roots, orange to brown, wet
15	110.0	17	S8	0-3-6-16 (9)	24/13			S8 - Silty GRAVEL with Sand (GM), coarse, subangular, 15-20% fines, 20-25% fine to medium sand, brown to orange, wet
		19	S9	16-16-15-17 (31)	24/16			S9 - Silty SAND (SM), fine, ~20% fines, light brown, wet
	105.0	21	S10	12-8-10-14 (18)	24/18		Sand	S10 - Similar to S9
		24						
25	100.0			68-33-33-38				S11 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~20% fine to coarse subangular gravel, light brown to gray, wet

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
24			S11	(66)	24/9			
26								
29			S12	60-120/4"	10/5	1		REMARK 1: Switched to 3-inch casing at 29 feet. S12 - Silty GRAVEL with Sand (GM), fine to coarse, subangular to rounded, ~15% fines, ~15% fine to coarse sand, light brown to gray, wet
30	95.0	29.8						
34			S13	23-46-32-22 (78)	24/10			S13 - Similar to S12
35	90.0	36						
39			S14	20-60-50-38 (110)	24/23		Sand	S14 - Top 17": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, trace fine subangular gravel, light brown, wet Bot. 6": Silty GRAVEL with Sand (GM), fine to coarse, 15-20% fines, 15-20% fine to coarse sand, light brown, wet
40	85.0	41						
44			S15	8-20-100/3"	15/7			S15 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, 15-20% fine subrounded gravel, light brown to gray, wet
45	80.0	45.3				2		REMARK 2: Open hole drive and wash technique used at 47 feet.
49			S16	120/0"	0/0	3		REMARK 3: Attempted to obtain a core sample at 49 feet. Core barrel advanced ~5 feet in ~10 seconds, indicating that the material was not rock. S16 - No recovery
50	75.0	49						
54			S17	120/0"	0/0			S17 - No recovery
55	70.0	54						Bottom of borehole at 54.0 feet. Backfilled borehole with drill cuttings.
60	65.0							



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/15/18 **DATE COMPLETED:** 10/17/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Eastern side of Hop Brook Bridge **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Drive and wash with 4-inch casing, then 3" casing
SURFACE EI.: 124 ft. (see note 1) **TOTAL DEPTH:** 51 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 4.0 ft. / El. 120.0 ft. measured on 10/16/18 **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 6.8 ft. / El. 117.2 ft. measured at the end of drilling **CORE BARREL SIZE:** NA
 ▼ **OTHER:** 3.3 ft. / El. 120.7 ft. measured on 10/17/18 **LOGGED BY:** KD **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Forest Mat	S1 - Top 2": Forest Material
2			S1	2-2-2-2 (4)	24/16		Fill	Mid. 4": Silty SAND (SM), fine, ~25% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, moist Bot. 10": Silty SAND (SM), fine, trace medium, ~20% fines, trace organic fines, trace roots, brown, moist S2 - Silty SAND (SM), fine, trace medium, ~45% fines, trace fine angular gravel, trace organic fines, trace roots, brown, wet
4	120.0		S2	2-2-3-3 (5)	24/13			S3 - Top 6": Silty SAND (SM), fine, trace medium, 25-30% fines, trace organic fines, trace roots, light brown, wet Bot. 9": Silty SAND (SM), fine, ~35% fines, trace organic fines, trace roots, light brown, wet
6			S3	3-2-2-3 (4)	24/15			S4 - Silty SAND (SM), fine, 35-40% fines, trace organic fines, trace roots, trace peat fibers, trace wood, dark brown, wet
8			S4	2-3-2-3 (5)	24/24		Swamp Deposits	S5 - Similar to S4
10	115.0		S5	2-2-1-2 (3)	24/17			S6 - Top 14": Similar to S4
12			S6	0-2-5-7 (7)	24/19			Bot. 5": Poorly Graded SAND with Silt (SP-SM), fine, 10-15% fines, trace roots, gray, wet
14			S7	3-5-4-5 (9)	24/12		Sand	S7 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 5-10% fines, light brown to gray, wet
15								
19	105.0		S8	120/0"	0/0	1		REMARK 1: Open hole drive and wash technique used at 19 feet. S8 - No recovery
20			S9	120/5"	5/5			S9 - Silty SAND with Gravel (SM), fine to coarse, ~30% fines, ~20% fine to coarse subangular gravel, brown, wet
24	100.0							S10 - Similar to S9
25				13-11-13-14				

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 09/05/18 **DATE COMPLETED:** 09/05/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 180 ft. (see note 1) **TOTAL DEPTH:** 6 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 90s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ **AT END OF DRILLING:** Not encountered (NE) **CORE BARREL SIZE:** NA
▽ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Fill	S1 - Top 9": Silty SAND (SM), fine to coarse, ~25% fines, 10-15% fine to coarse subangular gravel, trace organic fines, trace roots, trace coal, dark brown, moist Bot. 6": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, 5-10% fine subangular gravel, light brown, moist S2 - Silty SAND (SM), fine to coarse, 15-20% fines, 10-15% fine subangular gravel, angular stone fragments, light brown, moist S3 - Similar to S2
		2	S1	5-5-20-31 (25)	24/15			
		4	S2	40-46-47-48 (93)	24/19			
5	175.0		S3	26-52-60-53 (112)	24/11			
		6						Bottom of borehole at 6.0 feet. Backfilled borehole with drill cuttings.
10	170.0							
15	165.0							
20	160.0							
25	155.0							

GENERAL NOTES:

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BORING LOG

B-GB-2

PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>09/05/18</u> DATE COMPLETED: <u>09/05/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>180 ft. (see note 1)</u> TOTAL DEPTH: <u>3 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>90s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>Not encountered (NE)</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Fill	S1 - Top 7": Silty SAND with Gravel (SM), fine, trace medium to coarse, ~30% fines, ~15% fine to coarse subangular gravel, trace organic fines, trace roots, dark brown, moist Bot. 10": Silty SAND (SM), fine to coarse, ~20% fines, ~10% fine subrounded gravel, brown, moist S2 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~25% fine to coarse subangular gravel, light brown to gray, moist REMARK 1: Encountered auger refusal at 3 feet. Bottom of borehole at 3.0 feet. Backfilled borehole with drill cuttings.
		2.3	S1	6-9-12-24 (21)	24/17			
		2.3	S2	120/4"	4/1		Sand	
5	175.0							
10	170.0							
15	165.0							
20	160.0							
25	155.0							

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 09/05/18 **DATE COMPLETED:** 09/05/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 182 ft. (see note 1) **TOTAL DEPTH:** 2.5 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 90s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: Not encountered (NE) **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Fill	
			S1	6-13-24-55 (37)	24/13			S1 - Top 6": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~25% fine to coarse subangular gravel, trace organic fines, trace roots, trace coal, dark brown, moist
	180.0	2.3	S2	120/3"	3/1		Sand	Bot. 7": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~20% fine to coarse subangular gravel, angular stone fragments, light brown, moist S2 - Silty SAND (SM), fine to coarse, ~15% fines, 5-10% fine subangular gravel, angular stone fragments, light brown to gray, moist REMARK 1: Encountered auger refusal at 2.5 feet. Offset borehole 3 feet east and encountered auger refusal at 2.5 feet. Bottom of borehole at 2.5 feet. Backfilled borehole with drill cuttings.
5								
	175.0							
10								
	170.0							
15								
	165.0							
20								
	160.0							
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-GB-5

PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/11/18</u> DATE COMPLETED: <u>10/11/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>136 ft. (see note 1)</u> TOTAL DEPTH: <u>12 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>70s / Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>3.5 ft. / El. 132.5 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	135.0	0	S1	4-5-5-6 (10)	24/17		Topsoil	S1 - Top 7": Silty SAND (SM), fine, ~20% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, moist
		2	S2	4-2-2-2 (4)	24/17		Fill	Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, trace organic fines, trace roots, brown, moist
		4	S3	0-2-2-6 (4)	24/8		Swamp Deposits	S2 - Top 6": Silty SAND (SM), fine, trace medium to coarse, 20-25% fines, trace organic fines, light brown to brown, moist ▼ Bot. 11": Silty SAND (SM), fine, ~45% fines, trace organic fines, trace roots, trace peat fibers, dark brown, moist
5								S3 - Silty SAND (SM), fine, trace medium, 20-25% fines, trace organic fines, trace roots, brown, wet
	130.0	6	S4	7-10-10-11 (20)	24/12		Sand	S4 - Silty SAND (SM), fine, 15-20% fines, gray, wet
		8	S5	5-5-7-5 (12)	24/13			S5 - SILT with Sand (ML), nonplastic, ~45% fine sand, gray, wet
10		10	S6	4-5-6-5 (11)	24/16			S6 - SILT with Sand (ML), nonplastic, ~15% fine sand, gray, wet
	125.0	12						Bottom of borehole at 12.0 feet. Backfilled borehole with drill cuttings.
15								
	120.0							
20								
	115.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/17/18 **DATE COMPLETED:** 10/17/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 128 ft. (see note 1) **TOTAL DEPTH:** 20 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 6.8 ft. / El. 121.2 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0.1					Forest Mat	Encountered ~4 inches of forest mat material.
		2.1	S1	3-3-2-1 (5)	24/13		Fill	S1 - Top 5": Silty SAND (SM), fine to medium, trace coarse, ~30% fines, 5-10% coal ash, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, moist Bot. 8": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace organic fines, trace roots, trace coal ash, brown, moist
	125.0		S2	2-1-3-5 (4)	24/21			S2 - Silty SAND (SM), fine, 25-30% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, light brown, moist
5		4	S3	2-3-5-7 (8)	24/17			S3 - Silty SAND (SM), fine, ~25% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, light brown to orange, moist
		6	S4	2-36-27-26 (63)	24/13		Sand	S4 - Top 5": Silty SAND (SM), fine to coarse, ~25% fines, ~5% fine subangular gravel, trace organic fines, trace roots, trace peat fibers, trace wood, dark brown, moist Bot. 8": Silty SAND with Gravel (SM), fine to coarse, ~20% fines, 15-20% fine to coarse subangular gravel, brown to orange, wet
	120.0	8	S5	3-6-8-6 (14)	24/20			S5 - Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subangular gravel, light brown with orange mottles, wet
10		10						
	115.0	13	S6	3-4-10-8 (14)	24/24			S6 - Top 18": SILT with Sand (ML), nonplastic, ~15% fine sand, light brown, wet Bot. 6": Silty SAND (SM), fine, trace medium to coarse, ~35% fines, trace fine subangular gravel, light brown, wet
15		15						
	110.0	18	S7	4-3-5-6 (8)	24/22			S7 - Top 10": Silty SAND (SM), fine to coarse, 35-40% fines, trace fine subangular gravel, light brown, wet Bot. 12": SILT with Sand (ML), nonplastic, ~15% fine sand, light brown, wet
20		20						Bottom of borehole at 20.0 feet. Backfilled borehole with drill cuttings.
	105.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/18/18 **DATE COMPLETED:** 10/18/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 126 ft. (see note 1) **TOTAL DEPTH:** 21 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 6.0 ft. / El. 120.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	125.0	0	S1	8-18-21-18 (39)	24/9		Forest Mat	S1 - Silty SAND (SM), fine to coarse, ~15% fines, 5-10% coal ash, trace organic fines, trace roots, trace wood, dark brown, moist
		2	S2	18-14-8-9 (22)	24/14		Fill	S2 - Top 4": Similar to S1, ~5% coal ash, trace leaves Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 5-10% fines, trace organic fines, trace roots, light brown, moist
5		4	S3	4-11-16-9 (27)	24/9			S3 - Top 5": Silty SAND (SM), fine, trace medium to coarse, 25-30% fines, roots, trace organic fines, trace wood, brown, moist Bot. 4": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~15% fine to coarse subangular gravel, trace organic fines, trace roots, brown, moist
	120.0	6	S4	5-3-7-4 (10)	24/18			S4 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, 15-20% fine to coarse subangular gravel, trace organic fines, trace roots, brown, wet
		8	S5	2-3-5-5 (8)	24/23		Buried Organic Soil	S5 - Top 14": Organic SILT (OL), nonplastic, ~30% fine sand, trace medium to coarse sand, trace organic fines, trace roots, trace peat fibers, dark brown, wet Bot. 9": Silty SAND (SM), fine, ~20% fines, trace fine subangular gravel, trace organic fines, trace roots, gray, wet
10	115.0	10	S6	0-0-4-5 (4)	24/24			S6 - Top 13": Organic SILT (OL), nonplastic, ~30% fine sand, trace medium to coarse sand, trace organic fines, trace roots, trace peat fibers, dark brown, wet Bot. 11": Silty SAND (SM), fine, trace medium, ~20% fines, gray, wet
		12	S7	10-9-11-9 (20)	24/15		Sand	S7 - Similar to Bot. 11" of S6
15		14	S8	7-7-8-9 (15)	24/15			S8 - Silty SAND (SM), fine, trace medium, ~35% fines, light brown with orange mottles, wet
	110.0	16						
		19	S9	3-4-4-4 (8)	24/15			S9 - Silty SAND (SM), fine, 40-45% fines, light brown, wet
20	105.0	21						Bottom of borehole at 21.0 feet. Backfilled borehole with drill cuttings.
25								

GENERAL NOTES:

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CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/18/18 **DATE COMPLETED:** 10/19/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 126 ft. (see note 1) **TOTAL DEPTH:** 21 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 2.5 ft. / El. 123.5 ft. **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 3.6 ft. / El. 122.4 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	125.0	0	S1	4-6-9-10 (15)	24/15		Forest Mat	S1 - Top 7": Coal Ash, trace organic fines, trace roots, dark brown, moist Bot. 8": Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 10-15% fine subangular gravel, trace organic fines, trace roots, dark brown, moist
		2	S2	7-10-12-9 (22)	24/11		Fill	▽ S2 - Top 5": Silty SAND (SM), fine, trace medium, 20-25% fines, trace organic fines, trace roots, light brown, moist ▼ Bot. 6": Silty SAND with Gravel (SM), fine to coarse, ~15% fines, 25-30% fine to coarse subangular gravel, trace organic fines, trace roots, brown to orange, moist
5		4	S3	7-5-7-12 (12)	24/13			S3 - Top 8": Silty SAND (SM), fine to medium, trace coarse, ~25% fines, trace fine subangular gravel, trace organic fines, trace roots, light brown, wet Bot. 5": Silty SAND with Gravel (SM), fine to coarse, ~15% fines, 15 to 20% fine to coarse rounded to subangular gravel, trace organic fines, trace roots, brown, wet
	120.0	6	S4	26-40-19-21 (59)	24/24			S4 - Similar to Bot. 5" of S3, 15-20% fine to coarse subangular gravel
		8	S5	4-21-44-30 (65)	24/15			S5 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, ~20% fine to coarse subangular gravel, trace organic fines, trace roots, brown, wet
10		10	S6	9-5-5-12 (10)	24/9			S6 - Silty SAND (SM), fine to medium, trace coarse, ~20% fines, trace fine subangular gravel, trace organic fines, trace roots, brown, wet
	115.0	12	S7	12-14-15-10 (29)	24/10			S7 - Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, brown, wet
		14	S8	7-17-16-13 (33)	24/12		S8 - Similar to S7, 5-10% fine to coarse subangular gravel	
15		16					Sand	
	110.0	19	S9	8-13-28-39 (41)	24/20			S9 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, ~15% fine to coarse subangular gravel, brown, wet
	105.0	21						Bottom of borehole at 21.0 feet. Backfilled borehole with drill cuttings.
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/19/18</u> DATE COMPLETED: <u>10/23/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>131 ft. (see note 1)</u> TOTAL DEPTH: <u>23 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>50s / Partly Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>5.3 ft. / El. 125.7 ft. at end of 10/19/18</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>5.0 ft. / El. 126.0 ft. before coring on 10/22/18</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>4.3 ft. / El. 126.7 ft. at end of coring</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
	130.0	0.3					Forest Mat	0.3	Encountered ~3 inches of forest mat material.
		2.3	S1	3-6-9-11 (15)	24/18		Fill	130.7	S1 - Top 5": Coal ash, trace slag, trace organic fines, trace roots, dark brown, moist Bot. 10": Silty SAND (SM), fine, trace medium, ~20% fines, trace fine subangular gravel, trace organic fines, trace roots, brown, moist
			S2	12-27-30-24 (57)	24/15			130.0	S2 - Top 7": Silty SAND (SM), fine, 30-35% fines, trace organic fines, trace roots, light brown, moist Bot. 8": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, 20-25% fine to coarse subangular gravel, trace organic fines, trace roots, brown, wet
5		4	S3	14-23-23-18 (46)	24/15			125.0	S3 - Similar to Bot. 8" of S2, ~20% fine to coarse subangular gravel
			S4	7-12-14-19 (26)	24/15			8.0	S4 - Silty SAND (SM), fine to coarse, 15-20% fines, trace organic fines, brown, wet
		8	S5	1-3-6-5 (9)	24/14		Swamp Deposits	123.0	S5 - Top 4": Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~15% fine subangular gravel, trace organic fines, trace roots, dark brown, wet Bot. 10": Silty SAND (SM), fine to coarse, ~15% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, wet
10		10	S6	3-5-8-12 (13)	24/10		Sand	10.0	S6 - Silty SAND with Gravel (SM), fine to coarse, ~15% fines, 15-20% fine to coarse subangular gravel, trace organic fines, brown, wet
	120.0		S7	2-4-120/0"	12/12			121.0	S7 - Similar to S6, ~15% fine subangular gravel
		14.9	S9	14-120/5"	11/11	1		14.5	REMARK 1: Auger refusal at ~14 feet. Advanced roller bit to ~14.5 feet. Encountered spoon refusal at ~14.8 feet. Offset borehole ~5 feet west from original boring location. Encountered spoon refusal at ~14.9 feet. Advanced roller bit to 16 feet.
15		14.8	S8	120/3"	3/3			14.8	S8 - Silty GRAVEL with Sand (GM), fine to coarse, subrounded to angular, ~20% fines, ~20% fine to medium sand, light gray, wet
		16	S10	120/0"	0/0	2		18.0	REMARK 2: Encountered spoon refusal at ~16 feet.
	115.0							113.0	S10 - No recovery
20			C1		60/60		Bedrock	113.0	C1 - min/ft: 7.25, 3.9, 5.2, 5.0, 4.75 HARD, slightly weathered, slightly fractured, fine-grained, gray with white and green mottles, GRANITE Rec = 100%, RQD = 85%
	110.0							23.0	Bottom of borehole at 23.0 feet. Backfilled borehole with drill cuttings.
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/23/18 **DATE COMPLETED:** 10/24/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 132 ft. (see note 1) **TOTAL DEPTH:** 20 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Rainy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 4.2 ft. / El. 127.8 ft. at end of drilling on 10/23/18 **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 3.0 ft. / El. 129.0 ft. before drilling on 10/24/18 **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0.3					Forest Mat	Encountered ~3 inches of forest mat material.
	130.0	2.3	S1	6-10-14-17 (24)	24/19		Fill	S1 - Top 9": Coal ash, trace organic fines, trace roots, dark brown, moist Bot. 10": Silty SAND (SM), fine, trace medium to coarse, 15-20% fines, trace fine subangular gravel, trace organic fines, trace roots, brown, moist
			S2	17-21-22-9 (43)	24/18			S2 - Top 13": Silty SAND (SM), fine to medium, ~20% fines, 5-10% fine angular gravel, trace organic fines, brown, moist
5		4	S3	9-6-7-11 (13)	24/19			Bot. 5": Silty SAND with Gravel (SM), fine, 25-30% fines, 35-40% fine to coarse subangular gravel, trace organic fines, trace roots, brown, moist
		6	S4	5-77-29-13 (106)	24/20			S3 - Top 4": Silty SAND (SM), fine to coarse, ~15% fines, trace fine subangular gravel, trace coal ash, dark brown, moist
	125.0	8	S5	60-29-29-47 (58)	24/9			Bot. 15": Silty SAND (SM), fine, 30-35% fines, trace organic fines, brown, wet
10		10					Sand	S4 - Top 11": SILT with Sand (ML), slightly plastic, ~20% fine sand, trace organic fines, trace roots, orange to brown, wet
			S6	29-28-25-18 (53)	24/8			Bot. 9": Silty SAND with Gravel (SM), fine to coarse, ~20% fines, ~15% fine subangular gravel, angular stone fragments, trace organic fines, brown, wet
	120.0	12	S7	55-48-30-11 (78)	24/16			S5 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, 25-30% fine to coarse subangular gravel, angular stone fragments, trace organic fines, brown, wet
15		14	S8	22-15-37-43 (52)	24/9			S6 - Silty SAND with Gravel (SM), fine to medium, trace coarse, ~20% fines, ~25% fine to coarse subangular gravel, brown, wet
		16	S9	25-25-25-17 (50)	24/8			S7 - Similar to S6, 30-35% fine to coarse subangular gravel
	115.0	18					1	S8 - Similar to S6, fine to coarse sand
			S10	27-110-72-80 (182)	24/15			S9 - Silty SAND with Gravel (SM), fine to coarse, ~15% fines, 35-40% fine to coarse subangular gravel, angular stone fragments, brown, wet
20		20					2	REMARK 1: Casing broke at 18 feet. Offset borehole ~5 feet west from original boring location. Advanced augers to 16 feet and encountered rock. Offset borehole ~7 feet east of original boring location and advanced augers to 18 feet.
								S10 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 30-35% fine to coarse subangular gravel, trace organic fines, trace roots, brown, wet
	110.0							REMARK 2: Encountered spoon bouncing on hardcobstruction at ~ 20 feet, terminated boring.
25								Bottom of borehole at 20.0 feet. Backfilled borehole with drill cuttings.

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/05/18 **DATE COMPLETED:** 11/05/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 162 ft. (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 10.5 ft. / El. 151.5 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
	160.0	2	S1	3-3-5-6 (8)	24/24		Topsoil	Top 6": Silty SAND (SM), fine, trace medium, 25-30% fines, ~5% fine gravel, trace coal ash, trace organic fines, trace roots, dark brown, moist
			S2	7-7-7-7 (14)	24/20			Bot. 16": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, ~5% fines, light brown to orange, moist
5		4	S3	3-5-6-5 (11)	24/16			S2 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown to orange, moist
			S4	4-5-5-5 (10)	24/20		Sand	S3 - Similar to S2, trace fine gravel, orange, moist
	155.0	6						S4 - Similar to S2, light brown, wet
10		8						
	150.0							
		13	S5	3-4-7-3 (11)	24/18			S5 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 5-10% fines, light brown, wet
15		15						Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
	145.0							
20								
	140.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-MP-28

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CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/05/18 **DATE COMPLETED:** 11/05/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 158 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ **DURING DRILLING:** 6.0 ft. / El. 152.0 ft. based on sample moisture **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Forest Mat	S1 - Encountered ~3 inches of forest mat material at ground surface
			S1	2-2-4-6 (6)	24/24		Topsoil	Top 5": Silty SAND (SM), fine, trace medium, 25-30% fines, trace coal ash, trace organic fines, trace roots, dark brown, moist Bot. 16": Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, light brown, moist
	155.0		S2	6-8-7-8 (15)	24/20		Sand	S2 - Similar to Bot. 16" of S1
5			S3	4-8-7-7 (15)	24/24			S3 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 5-10% fines, trace organic fines, light brown, moist
			S4	7-7-7-7 (14)	24/22			▽ S4 - Top 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 5-10% fines, brown, wet Bot. 14": Silty SAND (SM), fine, ~20% fines, light brown, wet
	150.0		S5	5-7-8-8 (15)	24/24			S5 - Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, light brown, wet
10								
	145.0							Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15								
	140.0							
20								
	135.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/05/18 **DATE COMPLETED:** 11/05/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 150 ft. (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 11.6 ft. / El. 138.4 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
		0.6	S1	4-6-9-8 (15)	24/24	1	Topsoil	Top 7": Silty SAND (SM), fine, 25-30% fines, trace coal ash, trace organic fines, trace roots, trace glass, dark brown, moist REMARK 1: Pieces of glass observed in Top 7" of S1, samples were split with VHB and are not representative of entire spoon sample
		2	S2	7-8-7-7 (15)	24/19			Bot. 15": Poorly Graded SAND (SP), fine, trace medium to coarse, ~5% fines, orange, moist
5	145.0	4	S3	3-5-6-6 (11)	24/17			S2 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, moist S3 - Similar to S2
		6	S4	6-8-7-7 (15)	24/20			S4 - Similar to S2
		8	S5	4-4-5-6 (9)	24/19		Sand	S5 - Top 16": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, trace fine subangular gravel, light brown, wet
10	140.0	10	S6	0-3-2-3 (5)	24/16			Bot. 3": Silty SAND (SM), fine, 20-25% fines, light brown, wet S6 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, wet
		12	S7	3-3-4-6 (7)	24/24			▼ S7 - Similar to S6
15	135.0	14	S8	3-3-3-7 (6)	24/24			S8 - Similar to S6
		16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
20	130.0							
25	125.0							

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.
- Blow counts of "0" indicate weight-of-hammer conditions.



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BORING LOG

B-MP-30

PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/06/18 **DATE COMPLETED:** 11/06/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Byland
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 140 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▽ **AT END OF DRILLING:** 6.8 ft. / El. 133.3 ft. **CORE BARREL SIZE:** NA
 ▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	Depth El. (ft.) 0.5 139.5
		0-2	S1	2-2-4-4 (6)	24/24		Fill	S1 - Top 6": Silty SAND (SM), fine to medium, ~20% fines, trace organic fines, trace roots, dark brown, moist Bot. 18": Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, trace organic fines, light brown to orange, moist
		2-4	S2	6-5-4-3 (9)	24/19			S2 - Silty SAND (SM), fine, 20-25% fines, trace organic fines, trace roots, dark brown to brown, moist
5	135.0	4-6	S3	4-2-2-2 (4)	24/24			S3 - Top 20": Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, trace organic fines, trace roots, light brown, wet
		6-8	S4	2-2-6-11 (8)	24/24			Bot. 4": Silty SAND (SM), fine, 25-30% fines, trace organic fines, trace roots, dark brown, wet (Buried Topsoil) S4 - Silty SAND (SM), fine, ~15% fines, trace organic fines, light brown, wet
		8-10	S5	6-6-7-8 (13)	24/24			8.0 132.0
10	130.0	10					Sand	10.0
								Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15	125.0							
20	120.0							
25	115.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>11/06/18</u> DATE COMPLETED: <u>11/06/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>136 ft. (see note 1)</u> TOTAL DEPTH: <u>16 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>50s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>7.8 ft. / El. 128.3 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
	135.0	0	S1	3-4-3-3 (7)	24/12		Forest Mat	0.5	S1 - Encountered ~2 inches of forest mat material at ground surface
		2	S2	3-2-11-9 (13)	24/9		Topsoil	135.5	Top 4": Silty SAND (SM), fine to medium, 20-25% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, wet Bot. 6": Silty SAND (SM), fine to medium, ~20% fines, trace fine subangular gravel, trace organic fines, trace roots, light brown, wet
		4	S3	1-3-5-5 (8)	24/20		Fill	4.6	S2 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, ~15% fine subangular gravel, trace organic fines, light brown with orange seams, wet
5		6	S4	5-7-8-7 (15)	24/24			131.4	S3 - Top 7": Silty SAND (SM), fine, trace medium, 20-25% fines, trace organic fines, trace roots, trace peat fibers, dark brown, wet Bot. 13": Silty SAND (SM), fine, 30-35% fines, light brown, wet
	130.0	6	S4	5-7-8-7 (15)	24/24		Sand		S4 - Similar to Bot. 13" of S3
		8	S5	3-3-4-3 (7)	24/24				▼ S5 - Similar to Bot. 13" of S3
10		10	S6	3-4-5-6 (9)	24/15				S6 - Silty SAND (SM), fine, 35-40% fines, light brown, wet
	125.0	12	S7	5-4-3-5 (7)	24/24				S7 - SILT with Sand (ML), non plastic, 20-25% fine sand, gray, wet
		14	S8	3-3-4-4 (7)	24/9				S8 - Similar to S7
15		16						16.0	Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
20									
	115.0								
25									

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-MP-32

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CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/11/18</u> DATE COMPLETED: <u>10/11/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>136 ft. (see note 1)</u> TOTAL DEPTH: <u>12 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>70s / Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>8.0 ft. / El. 128.0 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	135.0	0	S1	3-6-5-5 (11)	24/12		Topsoil	S1 - Silty SAND (SM), fine to medium, trace coarse, ~25% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, moist
		2	S2	6-5-3-4 (8)	24/21		Fill	S2 - Top 15": Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, trace organic fines, trace roots, light brown, moist Bot. 6": Silty SAND (SM), fine, 25-30% fines, trace organic fines, trace roots, dark brown, moist
5		4	S3	4-3-1-2 (4)	24/21			S3 - Top 7": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, trace organic fines, light brown, moist Bot. 14": Silty SAND (SM), fine, ~40% fines, trace organic fines, trace roots, trace peat fibers, dark brown, wet
	130.0	6	S4	1-2-2-6 (4)	24/17		Swamp Deposits	S4 - Top 13": Organic SILT with Sand (OL), slightly plastic, 30-35% fine sand, trace organic fines, trace roots, trace peat fibers, dark brown, moist Bot. 4": Silty SAND (SM), fine, ~25% fines, trace organic fines, trace roots, dark brown to gray, wet
		8	S5	9-11-11-11 (22)	24/16			S5 - Silty SAND (SM), fine, ~20% fines, gray, wet
10		10	S6	0-6-6-7 (12)	24/19		Sand	S6 - Top 10": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, gray, wet Bot. 9": SILT with Sand (ML), nonplastic, ~40% fine sand, light brown, wet
	125.0	12						
15								
	120.0							
20								
	115.0							
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 11/01/18 **DATE COMPLETED:** 11/01/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, near Union Avenue **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 136 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 50s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▽ **AT END OF DRILLING:** 8.0 ft. / El. 128.0 ft. **CORE BARREL SIZE:** NA
 ▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	135.0	0	S1	3-5-5-6 (10)	24/22		Forest Mat	S1 - Encountered ~3 inches of forest mat material at ground surface
		2	S2	3-3-2-2 (5)	24/20		Topsoil	Top 6": Silty SAND (SM), fine, trace medium, 20-25% fines, trace coarse subangular gravel, trace organic fines, trace roots, dark brown, moist
		4	S3	2-1-1-3 (2)	24/19		Fill	Bot. 13": Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, trace organic fines, trace roots, light brown, moist
5			S4	8-9-10-10 (19)	24/19			S2 - Top 5": Similar to Bot. 13" of S1, 5-10% fines
	130.0	6	S5	5-6-5-5 (11)	24/16		Sand	Bot. 15": Silty SAND (SM), fine, 20-25% fines, trace organic fines, trace roots, dark brown, moist
		8						S3 - Similar to Bot. 15" of S2
		10						S4 - Top 8": Silty SAND (SM), fine, trace medium, 15-20% fines, trace organic fines, brown to orange, wet
								Bot. 11": Silty SAND (SM), fine, 30-35% fines, gray, wet
								S5 - Silty SAND (SM), fine, ~35% fines, gray, wet
								Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	125.0							
15								
	120.0							
20								
	115.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

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CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/11/18</u> DATE COMPLETED: <u>10/11/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>133 ft. (see note 1)</u> TOTAL DEPTH: <u>12 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>70s / Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>6.8 ft. / El. 126.2 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Topsoil	0.4	S1 - Top 5": Silty SAND (SM), fine to medium, ~25% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, moist Bot. 12": Silty SAND (SM), fine to medium, trace coarse, ~30% fines, trace fine subangular gravel, trace organic fines, trace roots, brown, moist S2 - Silty GRAVEL with Sand (GM), fine to coarse, angular, 15-20% fines, 15-20% fine to coarse sand, trace organic fines, trace roots, brown, moist S3 - Poorly Graded GRAVEL with Sand (GP), fine to coarse, subangular, 0-5% fines, 15-20% fine sand, trace organic fines, trace roots, trace leaves, large 2" piece of wood, dark brown, moist
		2	S1	3-3-3-3 (6)	24/17		Fill	132.6	
	130.0	4	S2	7-7-19-31 (26)	24/10				
5		4.7	S3	13-120/2"	8/3			6.3	
		6					Sand	126.7	S4 - Top 4": Silty GRAVEL with Sand (GM), fine to coarse, subangular, ~15% fines, ~15% fine to coarse sand, trace organic fines, trace roots, trace wood, dark brown, wet Bot. 4": Silty GRAVEL with Sand (GM), fine to coarse, subangular, ~15% fines, ~15% fine to coarse sand, gray, wet S5 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, ~35% fine to coarse subrounded to subangular gravel, light brown to gray, wet S6 - Similar to S5, 15-20% fine to coarse subangular gravel
	125.0	8	S4	11-119-41-34 (160)	24/8			12.0	
10		10	S5	11-16-13-11 (29)	24/6				
		12	S6	4-8-10-9 (18)	24/11				
	120.0								Bottom of borehole at 12.0 feet. Backfilled borehole with drill cuttings.
15									
	115.0								
20									
	110.0								
25									

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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B-MP-35

PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>11/06/18</u> DATE COMPLETED: <u>11/06/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>130 ft. (see note 1)</u> TOTAL DEPTH: <u>15 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>50s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>8.5 ft. / El. 121.5 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>MC</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	
			S1	4-6-6-6 (12)	24/24			S1 - Top 6": Silty SAND (SM), fine, trace medium, ~20% fines, trace organic fines, trace roots, trace coal ash, dark brown, moist
		2	S2	3-5-8-12 (13)	24/17			Bot. 18": Silty SAND (SM), fine, trace medium, 15-10% fines, trace organic fines, light brown to brown, moist
5	125.0		S3	3-6-7-8 (13)	24/16		Fill	S2 - Silty SAND (SM), fine, trace medium, 20-25% fines, trace fine to coarse subangular gravel, trace organic fines, trace roots, light brown, moist
		6	S4	10-11-8-9 (19)	24/16			S3 - Silty SAND (SM), fine to medium, 15-20% fines, trace organic fines, trace fine gravel, light brown, moist
		8	S5	10-11-15-31 (26)	24/5			S4 - Similar to S3, trace fine subangular gravel
10	120.0		S6	29-120	24/5			▼ S5 - Silty SAND with Gravel (SM), fine to medium, trace coarse, 30-35% slightly plastic fines, ~15% fine to coarse subangular gravel, trace organic fines, trace roots, brown, wet
		10				1		S6 - Silty SAND with Gravel (SM), fine, 25-30% fines, 25-30% fine subangular gravel, trace organic fines, brown, wet
		11	S7	16-120	24/4			REMARK 1: Spoon refusal at 10.5 feet, auger advanced to 11 feet.
		13	S8	10-18-19-19 (37)	24/16		Sand	S7 - Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 10-15% fine subangular gravel, light brown, wet
15	115.0							REMARK 2: Spoon refusal at 11.5 feet, auger advanced to 13 feet.
		15						S8 - Similar to S7, 10-15% fine to coarse subangular gravel
								Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
20	110.0							
25	105.0							

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-MP-36

PAGE 1 OF 1

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Lines</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Sudbury, Massachusetts</u>
DATE STARTED: <u>10/18/18</u> DATE COMPLETED: <u>10/18/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>MBTA ROW</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Auger (4-1/4" I.D.)</u>
SURFACE EI.: <u>126 ft. (see note 1)</u> TOTAL DEPTH: <u>10 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>40s / Sunny</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>4.3 ft. / El. 121.8 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>KD</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	125.0	0	S1	2-3-2-2 (5)	24/18		Forest Mat	S1 - Top 6": Coal Ash, trace organic fines, roots, dark brown, moist Bot. 10": Silty SAND (SM), fine, trace medium, 20-25% fines, trace fine subangular gravel, trace organic fines, roots, light brown, moist
		2	S2	1-1-1-1 (2)	24/24		Fill	S2 - Silty SAND (SM), fine, ~25% fines, roots, trace organic fines, brown, wet
		4	S3	2-1-2-3 (3)	24/23			▽ S3 - Top 13": Similar to S2
5								
	120.0	6	S4	0-0-8-8 (8)	24/21		Swamp Deposits	Bot. 10": PEAT, fibrous, 30-35% fine sand, trace organic fines, trace roots, black, moist S4 - Top 11": Silty SAND (SM), fine to medium, ~25% fines, trace organic fines, trace roots, brown, wet Middle 7": PEAT, fibrous 30-35% fine sand, trace organic fines, trace roots, black, moist
		8	S5	5-9-8-11 (17)	24/13		Sand	Bot. 3": Silty SAND (SM), fine, ~15% fines, light brown, wet S5 - Top 6": Silty SAND (SM), fine, ~25% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, wet Bot. 7": Silty SAND (SM), fine to coarse, ~15% fines, brown, wet
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	115.0							
15								
	110.0							
20								
	105.0							
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-MP-37

PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/26/18 **DATE COMPLETED:** 10/26/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 128 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ AT END OF DRILLING: 4.9 ft. / El. 123.1 ft. **CORE BARREL SIZE:** NA
▽ OTHER: - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Forest Mat	S1 - Encountered ~2 inches of forest mat material at ground surface
2			S1	2-4-6-5 (10)	24/17		Fill	Top 5": Coal ash, trace fine subangular gravel, trace organic fines, trace roots, dark brown, moist Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 10-15% fines, trace organic fines, trace roots, light brown, moist
125.0			S2	7-6-7-5 (13)	24/13			S2 - Poorly Graded SAND with Silt (SP-SM), 10-15% fines, trace organic fines, light brown, moist
5			S3	5-4-3-3 (7)	24/0			S3 - No recovery
6			S4	5-7-11-12 (18)	24/4			S4 - Poorly Graded SAND (SP), fine, trace medium, ~5% fines, trace organic fines, brown, wet
120.0			S5	3-5-6-9 (11)	24/18			S5 - Silty SAND (SM), fine, 30-35% fines, trace organic fines, trace roots, light brown, wet
10								Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
115.0								
15								
110.0								
20								
105.0								
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/26/18 **DATE COMPLETED:** 10/26/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, western side of Landham Road **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 136 ft. (see note 1) **TOTAL DEPTH:** 16.5 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 5.0 ft. / El. 131.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	135.0	0.1					Forest Mat	Encountered ~1 inch of forest mat material.
		2.1	S1	4-6-10-8 (16)	24/16		Fill	S1 - Top 5": Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, coal ash, trace organic fines, trace roots, dark brown, moist Bot. 10": Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, trace fine subangular gravel, trace organic fines, light brown, moist
			S2	6-5-10-7 (15)	24/5			S2 - Silty SAND with Gravel (SM), fine to medium, trace coarse, 25-30% fines, ~30% fine to coarse subangular gravel, trace organic fines, trace roots, dark brown, moist
5		4	S3	6-15-14-15 (29)	24/24			S3 - Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 10-15% fine angular gravel, trace organic fines, trace roots, brown, moist
	130.0	6	S4	17-20-21-21 (41)	24/20		Sand	S4 - Top 5": Similar to S3 Bot. 15": Silty SAND with Gravel (SM), fine to medium, 20-25% fines, ~15% fine subangular gravel, angular stone fragments, light brown to gray, moist
		8	S5	9-12-20-15 (32)	24/18			S5 - Similar to Bot. 15" of S4, ~20% fine subangular gravel
10		10	S6	26-20-11-18 (31)	24/10			S6 - Silty SAND with Gravel (SM), fine to medium, ~20% fines, ~20% fine subangular gravel, light brown, wet
	125.0	12						
15		15	S7	25-29-14-120/0" (43)	18/10			S7 - Similar to S6, ~25% fines, 25-30% fine to coarse subangular gravel
	120.0	16.5				1		REMARK 1: Encountered spoon refusal at 16.5 feet. Bottom of borehole at 16.5 feet. Backfilled borehole with drill cuttings.
	115.0							
20								
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.



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BORING LOG

B-MP-39

PAGE 1 OF 1

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Lines
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Sudbury, Massachusetts

DATE STARTED: 10/26/18 **DATE COMPLETED:** 10/26/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW, Eastern side of Landham Road **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Auger (4-1/4" I.D.)
SURFACE EI.: 140 ft. (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 40s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
▽ **AT END OF DRILLING:** 4.3 ft. / El. 135.7 ft. **CORE BARREL SIZE:** NA
▽ **OTHER:** - **LOGGED BY:** KD **CHECKED BY:** MC

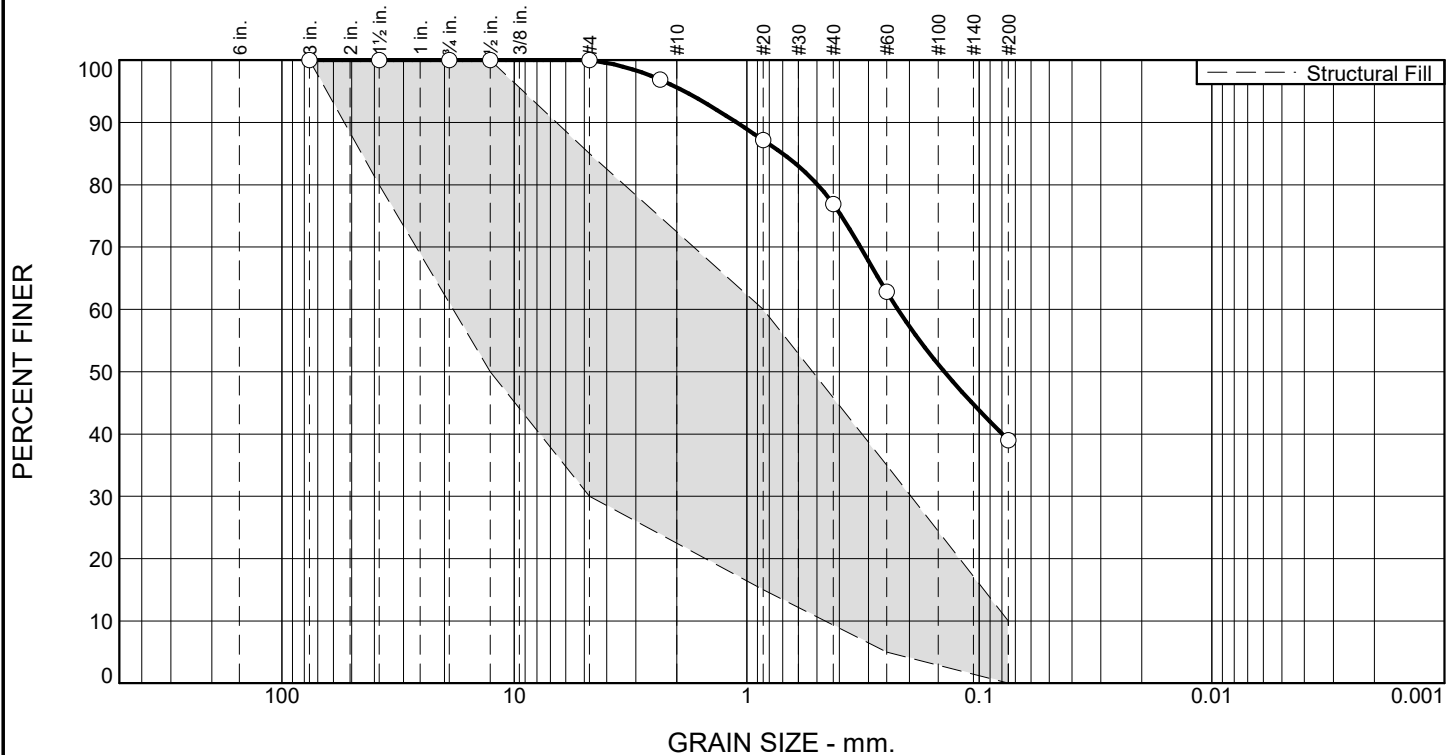
Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Forest Mat	S1 - Encountered ~1 inch of forest mat material at ground surface
		2	S1	4-9-61-41 (70)	24/16		Fill	Top 10": Silty SAND (SM), fine to coarse, ~25% fines, trace coal ash, trace organic fines, trace roots, trace wood, dark brown, moist Bot. 5": Silty SAND (SM), fine, trace medium to coarse, ~20% fines, 5-10% fine to coarse subangular gravel, trace organic fines, brown, moist S2 - Similar to Bot. 5" of S1, ~25% fines, wet
		4	S2	33-26-22-17 (48)	24/18			
5	135.0	6	S3	14-13-16-17 (29)	24/13			▽ S3 - Top 5": Silty SAND (SM), fine to coarse, ~25% fines, trace coal ash, trace coal, trace organic fines, trace roots, dark brown, moist Bot. 8": Silty SAND (SM), fine, trace medium to coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, brown
		8	S4	15-14-13-13 (27)	24/20			S4 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, ~15% fine to coarse subangular gravel, stone fragments, brown, wet
		10	S5	14-18-18-14 (36)	24/15			Sand
		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15	125.0							
20	120.0							
25	115.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.

Appendix B - LGCI's Laboratory Test Results

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	4.4	18.7	37.9	39.0	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	100.0	30.0 - 85.0	X
#8	96.9		
#20	87.2	15.0 - 60.0	X
#40	76.9		
#60	62.8	5.0 - 35.0	X
#200	39.0	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine to medium, trace coarse, 35-40% fines, trace organics, trace roots, dark brown, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 1.1043 D₈₅= 0.7005 D₆₀= 0.2239
 D₅₀= 0.1413 D₃₀= _____ D₁₅= _____
 D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP _____

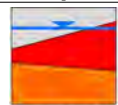
Checked By: _____

* Structural Fill

Location: Stream Bed
 Sample Number: S1

Depth: Top 5"

Date Sampled:



LGCi

Lahlaf Geotechnical Consulting, Inc.

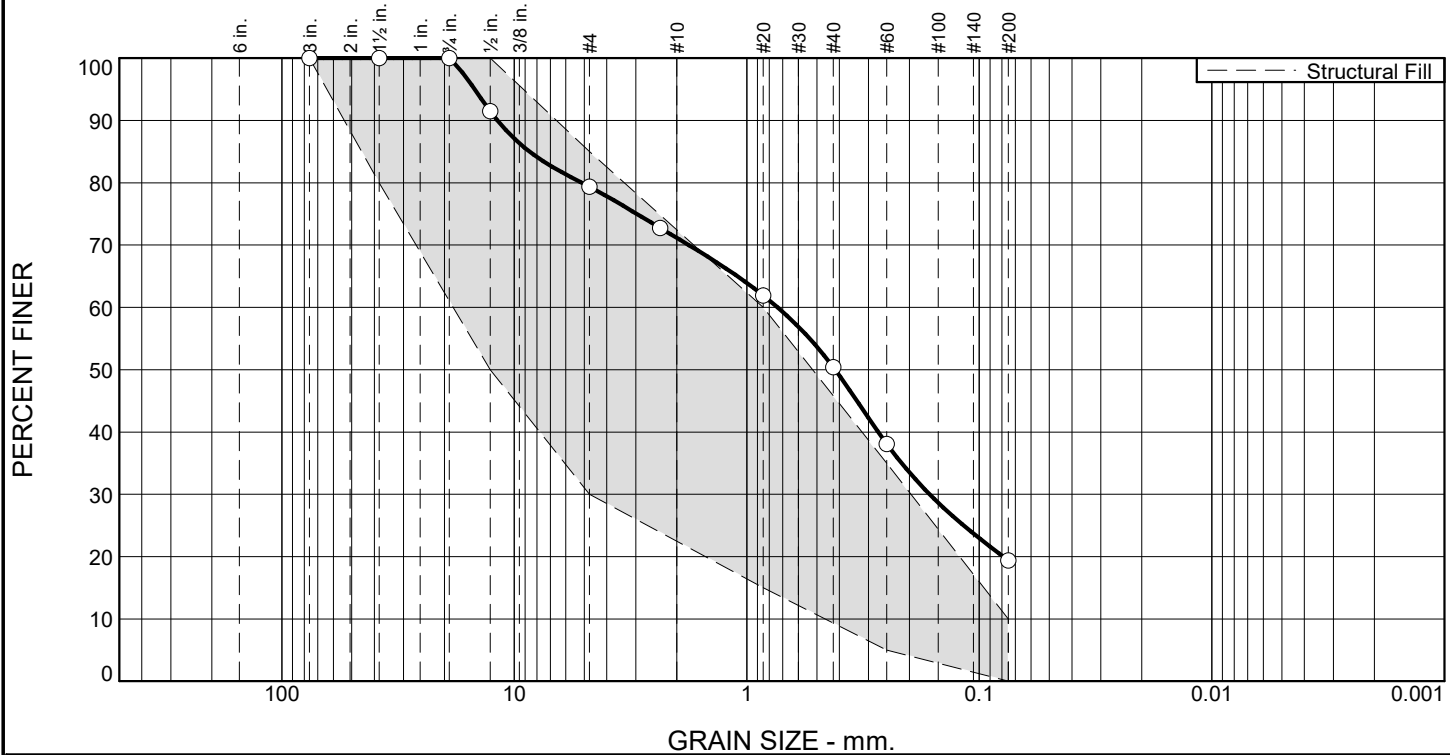
Client:

Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	20.6	8.2	20.8	31.0	19.4	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	91.5	50.0 - 100.0	
#4	79.4	30.0 - 85.0	
#8	72.8		
#20	61.9	15.0 - 60.0	X
#40	50.4		
#60	38.1	5.0 - 35.0	X
#200	19.4	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine to coarse, 15-20% fines, 20-25% fine gravel, trace organics, trace roots, dark brown, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 11.8095 D₈₅= 8.5799 D₆₀= 0.7371
 D₅₀= 0.4167 D₃₀= 0.1633 D₁₅= _____
 D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP _____

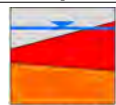
Checked By: _____

* Structural Fill

Location: Stream Bed
 Sample Number: S2

Depth: Bottom 5"

Date Sampled:



LGC I

Lahlaf Geotechnical Consulting, Inc.

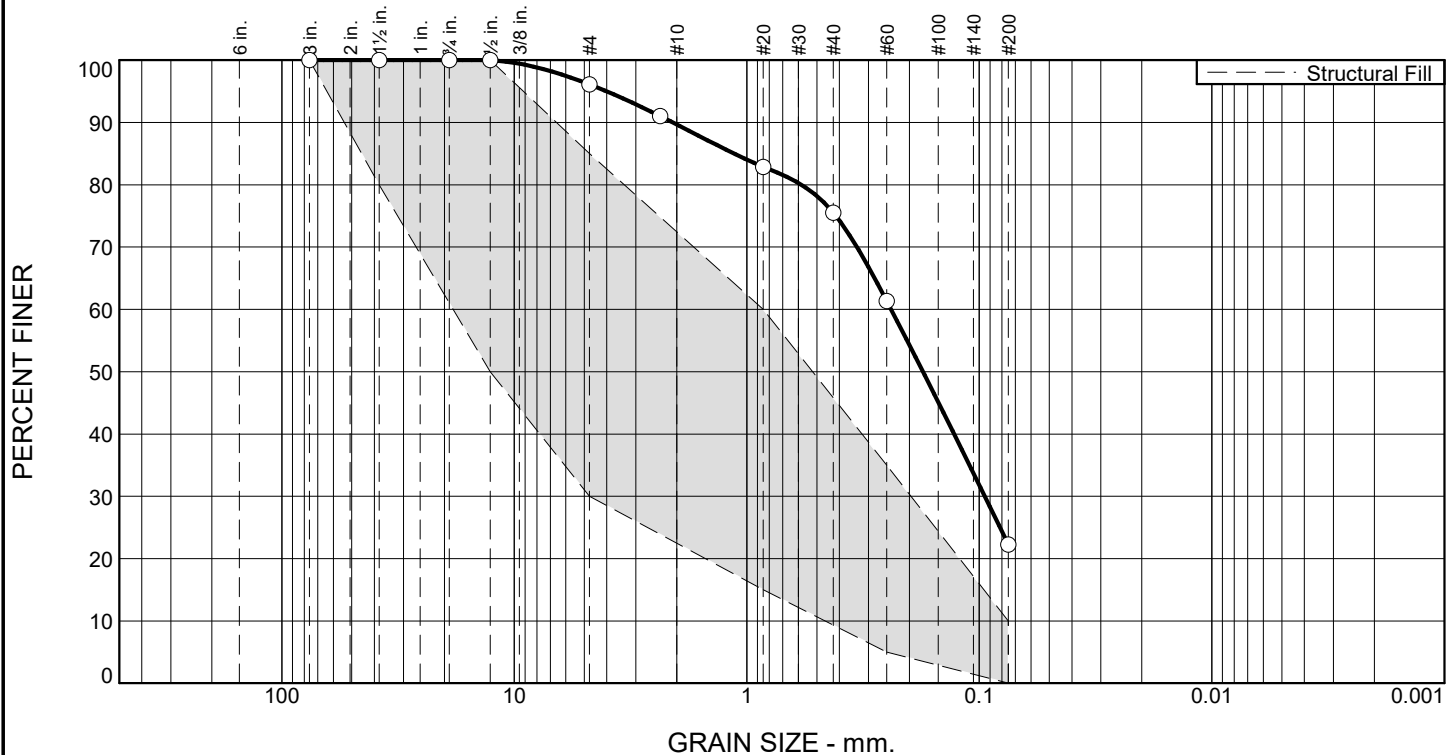
Client:

Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.9	6.4	14.2	53.2	22.3	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	96.1	30.0 - 85.0	X
#8	91.0		
#20	82.9	15.0 - 60.0	X
#40	75.5		
#60	61.3	5.0 - 35.0	X
#200	22.3	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine gravel, trace organics, trace roots, gray/black, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 2.0776 D₈₅= 1.1303 D₆₀= 0.2394
D₅₀= 0.1745 D₃₀= 0.0947 D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP

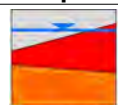
Checked By: _____

* Structural Fill

Location: Stream Bed
Sample Number: S3

Depth: Top 5"

Date Sampled:



LGC I

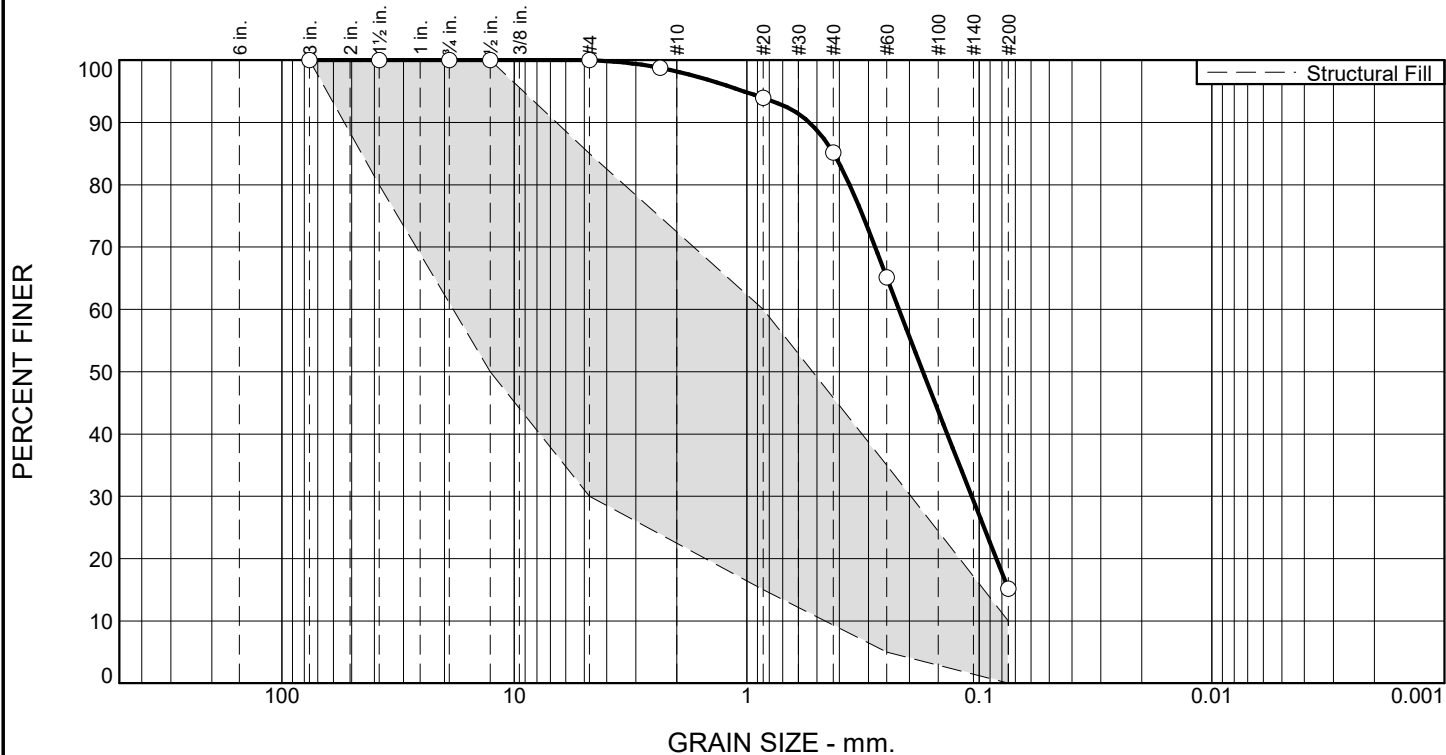
Lahlaf Geotechnical Consulting, Inc.

Client:
Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.8	13.0	70.0	15.2	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	100.0	30.0 - 85.0	X
#8	98.8		
#20	93.9	15.0 - 60.0	X
#40	85.2		
#60	65.2	5.0 - 35.0	X
#200	15.2	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine to medium, trace coarse, 15% fines, trace organics, gray/black, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.5385 D₈₅= 0.4226 D₆₀= 0.2215
 D₅₀= 0.1746 D₃₀= 0.1077 D₁₅= _____
 D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP

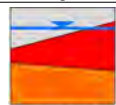
Checked By: _____

* Structural Fill

Location: Stream Bed
 Sample Number: S4

Depth: Bottom 5"

Date Sampled:



LGC I

Lahlaf Geotechnical Consulting, Inc.

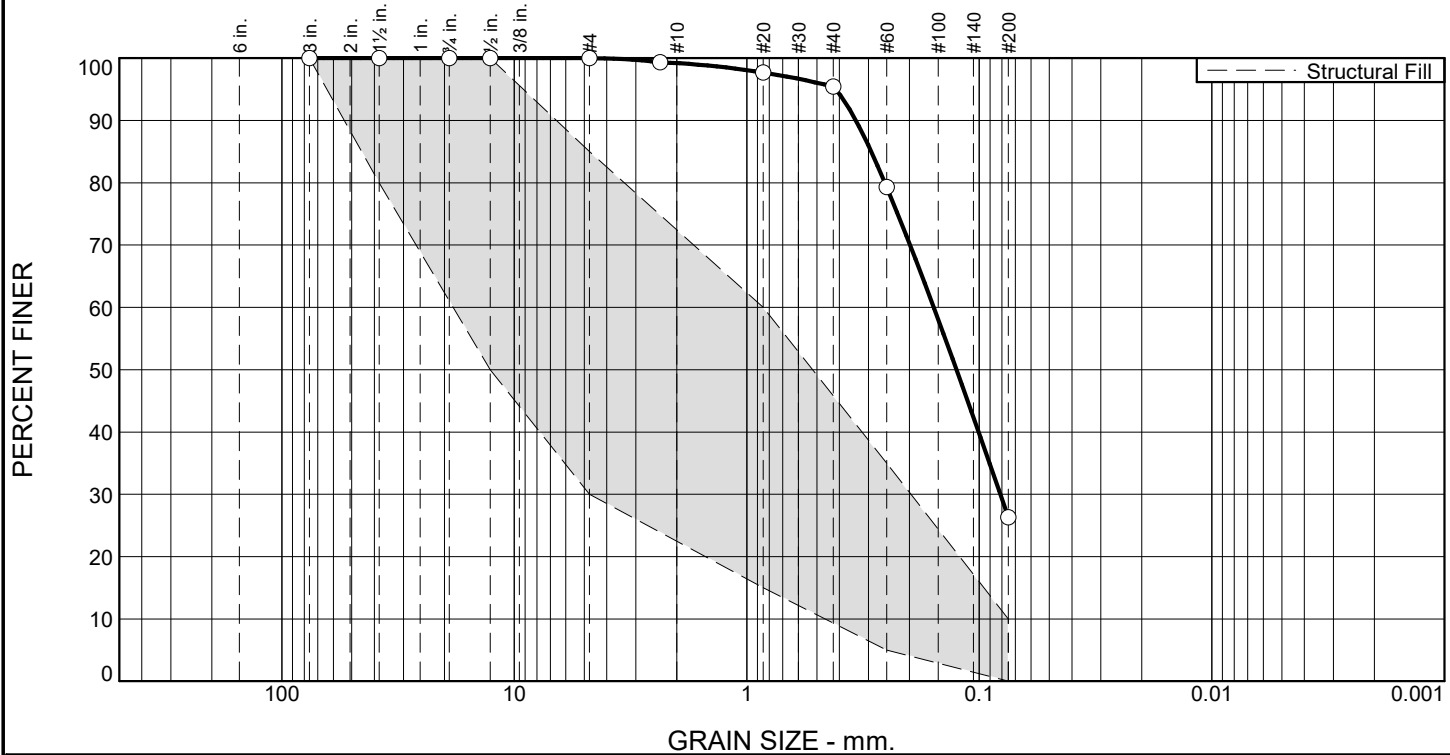
Client:

Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.8	3.8	69.1	26.3	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	100.0	30.0 - 85.0	X
#8	99.3		
#20	97.7	15.0 - 60.0	X
#40	95.4		
#60	79.3	5.0 - 35.0	X
#200	26.3	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine, trace medium to coarse, 25-30% fines, trace organics, trace roots, gray/black, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.3391 D₈₅= 0.2913 D₆₀= 0.1568
D₅₀= 0.1253 D₃₀= 0.0811 D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP

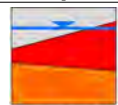
Checked By: _____

* Structural Fill

Location: Stream Bed
Sample Number: S5

Depth: Top 5"

Date Sampled:



LGCi

Lahlaf Geotechnical Consulting, Inc.

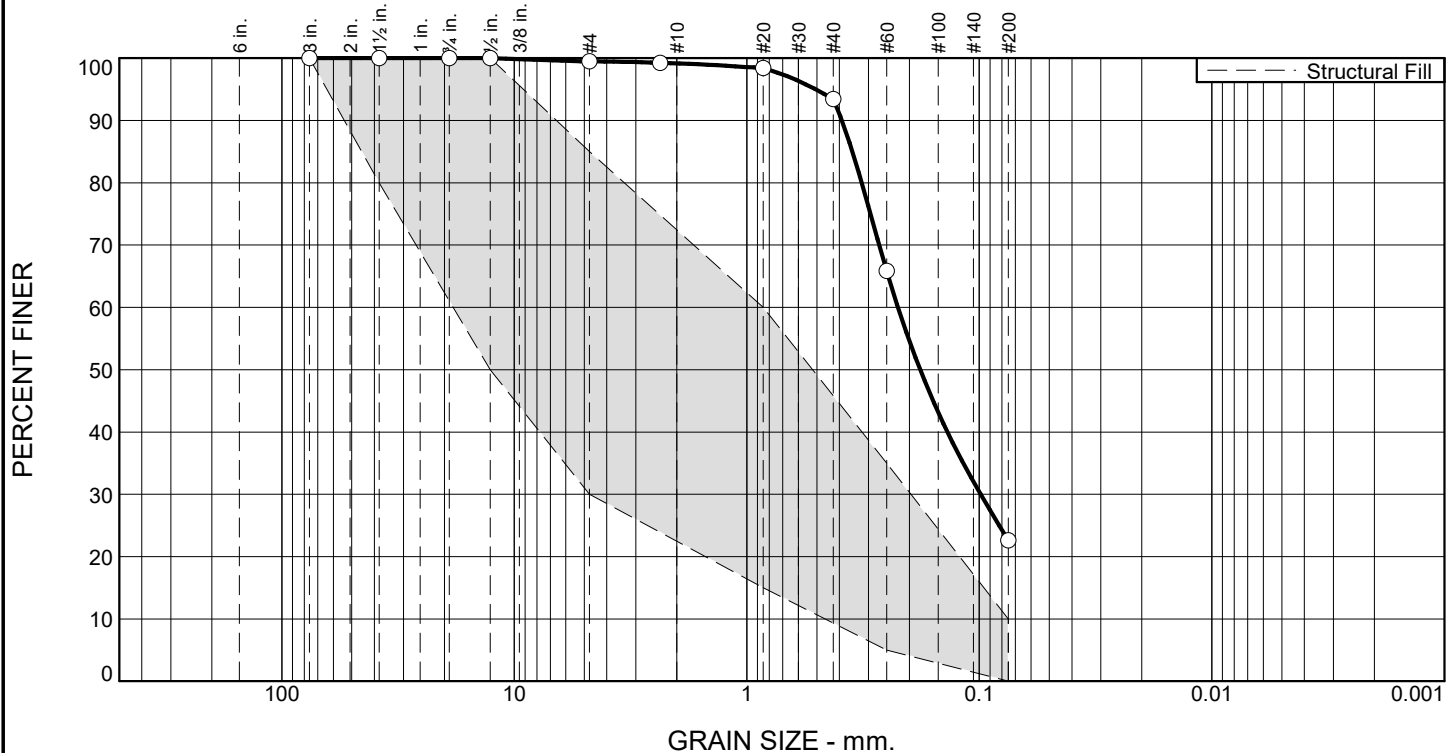
Client:

Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	0.3	5.8	70.8	22.6	

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0	50.0 - 100.0	
0.5"	100.0	50.0 - 100.0	
#4	99.5	30.0 - 85.0	X
#8	99.3	30.0 - 85.0	X
#20	98.4	15.0 - 60.0	X
#40	93.4	15.0 - 60.0	X
#60	65.8	5.0 - 35.0	X
#200	22.6	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine, trace medium to coarse, 20-25% fines, trace fine gravel, trace organics, trace roots, gray/black, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.3894 D₈₅= 0.3510 D₆₀= 0.2235
 D₅₀= 0.1793 D₃₀= 0.0986 D₁₅= _____
 D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: _____ Date Tested: 11/30/18

Tested By: NP

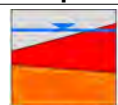
Checked By: _____

* Structural Fill

Location: Stream Bed
Sample Number: S6

Depth: Bottom 5"

Date Sampled:



LGCI

Lahlaf Geotechnical Consulting, Inc.

Client:
Project: Proposed UG Transmission Lines, Sudbury/Hudson, MA

Project No: 1836

Figure

Appendix C - Borehole Permeability Test

VARIABLE HEAD PERMEABILITY TEST

Perm. Tests
Sudbury, MA
LGCI Project: 1836

LGCI Rep.:
Calculated by:
Checked by:

K. Dooley
K. Dooley
AML

Date: 11/9/18
Date: 11/12/18
Date: 12/07/18

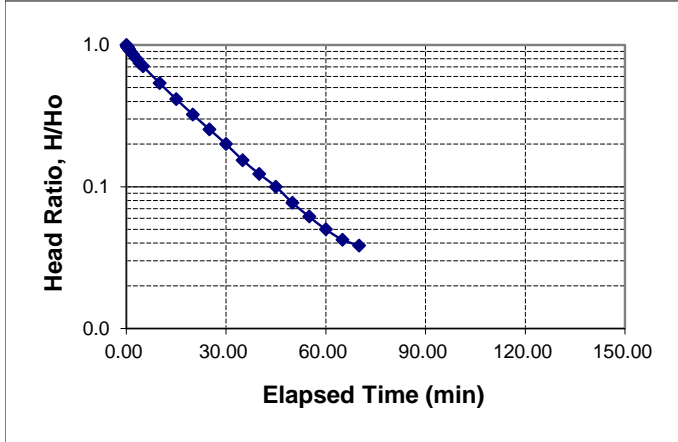
Boring No. : B-39
Test No. : #1

STANDPIPE/RISER DETAILS

Casing inner diam, d, inches: 3.0
Casing length, feet: 15.5
Casing stick up length, feet
(above ground surface) : 3.5
Initial Water Depth
(below top of casing): 13.0

TEST INTERVAL DETAILS

Depth to bottom, feet
(below ground surface): 14.0
Depth to top, feet
(below ground surface): 12.0
Length, L, feet: 2.0
Hole diameter, D, inches: 4.00



Material at 12 ft to 14 ft
test interval: Poorly Graded SAND (SP), fine, ~5% fines
m = 1 i.e., isotropic material

TIME (hr:min:sec)	ELAPSED TIME (min)	DEPTH TO WATER FROM TOP OF CASING (ft)	HEAD H (feet)	HEAD RATIO H/Ho	K (ft/min)	K (cm/sec)
	0.00	0.00	13.00	1.00		
	0.17	0.33	12.67	0.97	1.5E-03	7.5E-04
	0.33	0.42	12.58	0.97	9.6E-04	4.9E-04
	0.50	0.50	12.50	0.96	7.6E-04	3.9E-04
	0.67	0.70	12.30	0.95	8.0E-04	4.1E-04
	0.83	0.90	12.10	0.93	8.4E-04	4.3E-04
	1.00	1.10	11.90	0.92	8.6E-04	4.4E-04
	2.00	1.90	11.10	0.85	7.7E-04	3.9E-04
	3.00	2.60	10.40	0.80	7.2E-04	3.7E-04
	4.00	3.30	9.70	0.75	7.1E-04	3.6E-04
	5.00	3.80	9.20	0.71	6.7E-04	3.4E-04
	10.00	6.00	7.00	0.54	6.0E-04	3.1E-04
	15.00	7.60	5.40	0.42	5.7E-04	2.9E-04
	20.00	8.80	4.20	0.32	5.5E-04	2.8E-04
	25.00	9.70	3.30	0.25	5.3E-04	2.7E-04
	30.00	10.40	2.60	0.20	5.2E-04	2.6E-04
	35.00	11.00	2.00	0.15	5.2E-04	2.6E-04
	40.00	11.40	1.60	0.12	5.1E-04	2.6E-04
	45.00	11.70	1.30	0.10	5.0E-04	2.5E-04
	50.00	12.00	1.00	0.08	5.0E-04	2.5E-04
	55.00	12.20	0.80	0.06	4.9E-04	2.5E-04
	60.00	12.35	0.65	0.05	4.8E-04	2.5E-04
	65.00	12.45	0.55	0.04	4.7E-04	2.4E-04
	70.00	12.50	0.50	0.04	4.5E-04	2.3E-04

NOTES:

Average **2.67E-04**

- 1 - Test procedure used was a falling head test in an open borehole.
- 2 - Hydraulic Conductivity, $K = (d^2 \ln(2mL/D)) / (8L(t_2 - t_1) \ln(H_1/H_2))$, per Lambe & Whitman, Soil Mechanics, 1969, p. 285, case G: isotropic conditions and L/D not less than 4.
- 3 - H represents the difference between static ground water level and water level in casing.
- 4 - Average calculated over straight line portion of plot above (bold values in table).



August 16, 2018

Mr. Paul A. McKinlay, PG, LSP
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472
Phone: (617) 607-2956
Fax: (617) 924-2286
E-mail: pmckinlay@VHB.com

Re: **Geotechnical Report**
Proposed Transmission Power Line Borings
Hudson, Massachusetts
LGCI Project No. 1836

Dear Mr. McKinlay:

Lahlaf Geotechnical Consulting, Inc. (LGCI) has completed a geotechnical study for the proposed Transmission Power Line in Hudson, Massachusetts. We are submitting this report electronically, please notify us if you need a hard copy.

The soil samples from our explorations are currently stored at LGCI for further analysis, if requested. Unless notified otherwise, we will dispose of the soil samples after three months.

Thank you for choosing LGCI as your geotechnical engineer.

Very truly yours,

Lahlaf Geotechnical Consulting, Inc.

Abdelmadjid M. Lahlaf, Ph.D., P.E.
Principal Engineer



LGCI
Lahlaf Geotechnical Consulting, Inc.

**GEOTECHNICAL LETTER REPORT
PROPOSED TRANSMISSION POWER LINE BORINGS
HUDSON, MASSACHUSETTS**
LGCI Project No. 1836
August 16, 2018

Prepared for:

VANASSE HANGEN BRUSTLIN, INC.
101 Walnut Street
Watertown, MA 02472
Phone: (617) 607-2956
Fax: (617) 924-2286

**GEOTECHNICAL REPORT
PROPOSED TRANSMISSION POWER LINE BORINGS
HUDSON, MASSACHUSETTS**

LGCI Project No. 1836

August 16, 2018

Prepared for:

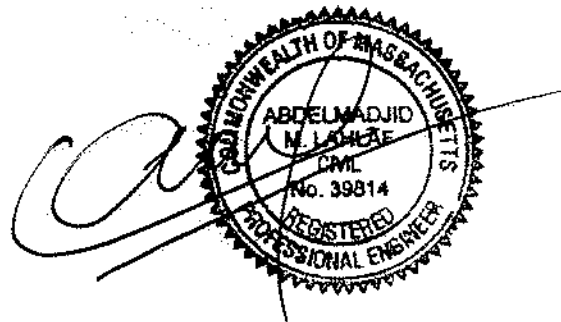
VANASSE HANGEN BRUSTLIN, INC.

101 Walnut Street
Watertown, MA 01604
Phone: (617) 607-2956
Fax: (508) 924-2286

Prepared by:

LAHLAF GEOTECHNICAL CONSULTING, INC.

100 Chelmsford Road, Suite 2
Billerica, Massachusetts 01867
Phone: (978) 330-5912
Fax: (978) 330-5056



Abdelmadjid M. Lahlaf, Ph.D., P.E.
Principal Engineer

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Figure 2 Surficial Geologic Map

Figure 3 Exploration Location Plan

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Appendix A LGCI's Boring Logs

Appendix B LGCI's Laboratory Test Results

Appendix C Borehole Permeability Tests



**Geotechnical Report
Proposed Transmission Power Line Borings
Hudson, Massachusetts
LGCI Project No. 1836**

1. PROJECT INFORMATION

1.1 Project Authorization

This report presents the results of subsurface explorations and a geotechnical evaluation performed by Lahlaf Geotechnical Consulting, Inc. (LGCI) for the proposed transmission power line in Hudson, Massachusetts. We performed our services in general accordance with our proposal No. 16006-Rev. 3 dated January 23, 2016 and revised June 19, 2018.

1.2 Purpose and Scope of Services

The purpose of this geotechnical study was to obtain subsurface information at the site and to provide foundation design and construction recommendations for the utility vaults along the proposed transmission power line. LGCI performed the following services:

- Provided a geotechnical senior and field engineer to attend a site meeting with Vanasse Hangen Brustlin, Inc. (VHB) representatives and the drilling subcontractor's crew on May 22, 2018.
- Provided a geotechnical field engineer at the site. The engineer coordinated and observed the borings, described the soil samples, and prepared field logs.
- Submitted six (6) soil samples for laboratory testing.
- Performed two (2) borehole permeability tests.
- Prepared this geotechnical report containing the results of our subsurface explorations and our recommendations for foundation design and construction related to the proposed transmission power line.

This report presents the results of our geotechnical services for the Hudson portion of this project. We understand that more subsurface explorations will be advanced in the Sudbury portion at a future date.

Our scope did not include attending meetings, preparing specifications, reviewing contract documents and shop drawings, or providing construction services. LGCI would be pleased to perform these services when needed. Recommendations for stormwater management, erosion control, pavement design, subgrade preparation for roadways and other paved areas, slope stability analyses, and detailed cost or quantity estimates are not included in our scope of work.

Our scope does not include performing environmental services for this project. LGCI did not perform an environmental assessment to evaluate the presence or absence of wetlands or analytical testing for hazardous or toxic materials in the soil, surface water, groundwater, or air,



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on or below this site, or mold in the soil or any structure at this site. Any statement about the color, odor, or the presence of suspicious materials included in our boring logs or report were made by LGCI for information only and to support our geotechnical services. No environmental recommendations and/or opinions are included in this report.

1.3 Site Description

Our understanding of the existing conditions is based on field observations, our discussions with VHB, and on the following drawing:

- “Proposed Conditions Plans for Notice of Intent (NOI) Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts,” (NOI Plans) prepared by VHB and dated February 14, 2018.

The site extends along Forest Avenue, Wilkins Street, and an abandoned MBTA railroad. Forest Avenue and Wilkins Street extend through residential areas. Private properties are located on either side of Forest Avenue and Wilkins Street. The site includes a four-way intersection where Forest Avenue and Wilkins Street intersect with Main Street. Overhead wires extend from the Hudson Light and Power Department, located at 49 Forest Avenue, along Forest Avenue and continue along Wilkins Street. Boulders up to 2 feet in diameter were observed on the northern edge of Forest Avenue near Jack’s Automotive, located at 104 Forest Avenue.

The abandoned MBTA railroad intersects Wilkins Street near the East Hudson Trail point and Orchard Drive. The abandoned railroad tracks are built on a 5-foot embankment that extends through wooded areas and wetlands. Trees and boulders up to 4 feet in diameter were observed on either side of the embankment. Based on the NOI Plans and our field observations there appears to be approximately 12 feet of fill placed on the railroad bed when Chestnut Street was constructed. The abandoned railroad crosses over the Fort Meadow Brook over an existing timber bridge. The railroad extends along industrial and residential areas on the eastern side of the Fort Meadow Brook. Private properties border the railroad on either side. The railroad intersects with Main Street, Parmenter Road, and White Pond Road. Figure 1 shows the approximate extend of the project site.

The ground surface elevations of the portion of the project along the different areas listed above are as follows:

- Between El. 214 on the western side and El. 216 on the eastern side of Forest Avenue with a local high at about El. 245;
- Between El. 214 on the western side and El. 220 on the eastern site of Wilkins Street; and
- Between El. 224 on the western side and El. 192 on the eastern side of the abandoned MBTA railroad with a local low of El. 180 near the Fort Meadow Brook.



1.4 Project Description

Our understanding of the proposed transmission power line is based on our discussions with VHB and the NOI Plans listed in Section 1.3 and the following drawings:

- “Line 1151 South End Glenbrook, 115-kV Underground Transmission Line, Splice Vault Detail, Stamford, Connecticut,” prepared by Northeast Utilities Service Co. and dated May 10, 2013.
- “Cross Sections, Sudbury Hudson Transmission Line Reliability Project, Hudson, Stow, Marlborough, and Sudbury, Massachusetts,” (Cross Sections) prepared by VHB for Eversource Energy and dated July 2, 2018.

We understand that Eversource Energy (Eversource) engaged VHB to coordinate and observe a subsurface exploration for its proposed transmission power line. The transmission power line will be a 115-kV underground transmission power line connecting a substation in Hudson to a substation in Sudbury and will extend along a proposed bike path that will be constructed along the abandoned railroad bed.

We understand that the construction of the proposed transmission power line will include twenty-eight (28) vaults, three (3) bridges, and two (2) retaining walls as follows:

- Fourteen (14) vaults in Hudson and fourteen (14) vaults in Sudbury;
- Two (2) bridges (Chestnut Street Bridge and Fort Meadow Brook Bridge) in Hudson, and one (1) bridge (Hop Brook Bridge No. 127) in Sudbury.
- One (1) retaining wall in Hudson and one (1) retaining wall in Sudbury.

This report focuses on the portion of the proposed transmission power line in Hudson. Work related to the Sudbury line will be performed at a later date and will be described in a future report.

The Hudson portion of the transmission power line extends approximately 3 miles. The proposed transmission power line will be installed within a trench that will generally extend to depths of about 5 feet beneath the ground surface. We understand that the proposed transmission power line will be encased in concrete.

We understand that the proposed vaults will be spaced 1,500 to 1,900 feet apart. We also understand that the proposed vaults will have a length of 24 feet, a width of 8 feet, and a height of 8 feet. VHB indicated to us that the vaults will likely have a wall thickness of 6 inches. The vaults will be designed with two (2) 3-foot manholes per vault. The vaults are generally placed at a depth of 11 feet. This is to provide 2 feet between the top of the vault and the proposed finished grade for manhole brick work.

Based on the Cross Sections, the proposed retaining wall will extend from about Sta. 119+00 to Sta. 125+00, i.e., and will be about 600 feet long. The cross sections indicated that the exposed



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height of the proposed wall ranges up to about 4 feet. VHB indicated to us that the current design includes sheet piles for the proposed wall. We understand that concrete a cap will be provided on top of the sheet piles.

1.5 Elevation Datum

We understand that elevations shown in the NOI Plans are referenced with respect to the North American Vertical Datum (NAVD) of 1988 and are in feet.



2. SITE AND SUBSURFACE CONDITIONS

2.1 Surficial Geology

LGCI reviewed the surficial geological map titled: “Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts,” compiled by Bryon D. Stone and Janet R. Stone for U.S. Geological Survey, Open-File report (2006).

The geologic map indicates that the surficial soil in the general vicinity of the site consists of organic muck and peat that contain minor amounts of sand, silt, and clay, stratified and poorly sorted in kettle depressions or poorly drained areas. The surficial geologic map of the site is shown in Figure 2.

2.2 LGCI’s Borings

VHB engaged Geosearch, Inc. (Geosearch) of Sterling, Massachusetts to advance thirty-seven (37) borings for the Hudson portion of the project between May 22 and July 13, 2018 as follows:

- Four (4) borings for the proposed bridges, the results of which are included in a separate report; and
- Thirty-three (33) borings for the proposed transmission power line. One of the bridge borings at the Fort Meadow Brook crossing was also advanced at an intermediate location along the proposed transmission power line and was combined with a transmission power line boring.

The borings extended to depths ranging from 10 to 101 feet beneath the ground surface. An LGCI engineer observed and logged the borings in the field. A representative from VHB was on site to collect soil samples from the borings along the proposed transmission power line for laboratory testing, including thermal resistivity, oil and/or hazardous materials, proctor, and grain-size analysis. The results of the tests performed by VHB are not included in our report.

Geosearch performed vacuum explorations at borings B-8, B-MP-1, B-MP-3, B-MP-4, B-MP6, and B-MP-9 to B-MP-11 to depths of about 6 feet.

The borings located in paved areas along Forest Avenue and Wilkins Street (B-MP-3, B-MP-4, B-MP-6, B-MP-9 to B-MP-11, and B-8) were advanced with a CME 55 truck mounted rig by employing 4 ¼-inch hollow stem augers to a depth of up to 16 feet.

Four (4) borings (B-13, and B-25 to B-27) were advanced with a tripod using a Honda GX200 motor. These borings were located in sections along the MBTA railroad that were inaccessible with a rubber track ATV rig. These borings were advanced to depths up to 16 feet.



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The remaining borings were advanced in a grass area along Forest Street or on the MBTA railroad, and were advanced with a CME 55 LC rubber track ATV rig by employing 4 ¼-inch hollow stem augers to a depth of up to 30 feet. Boring B-BB-3/B-14 was advanced to a depth of 101 feet with a CME 55 LC rubber track ATV by employing 4 ¼-inch hollow stem augers to a depth of 12 feet, and then by employing a 4-inch casing to a depth of 29 feet and a 3-inch casing to the termination depth of the boring.

The drillers performed Standard Penetration Tests (SPT) and obtained split spoon samples with an automatic hammer typically at depth intervals of 2 feet or 5 feet, as noted on the boring logs, in general accordance with ASTM D-1586. Unless notified otherwise, we will dispose of the soil samples after three months.

Figure 3 shows the boring locations, and Appendix A contains LGCI's boring logs. The ground surface elevations noted on the boring logs were interpolated to the nearest foot from the NOI Plans.

2.3 Subsurface Conditions

2.3.1 General

The subsurface description in this report is based on a limited number of borings and is intended to highlight the major soil strata encountered during our borings. The subsurface conditions are known only at the actual boring locations. Variations may occur and should be expected between boring locations. The boring logs represent conditions that we observed at the time of our explorations and were edited, as appropriate, based on the results of the laboratory test data and inspection of the soil samples in the laboratory. The strata boundaries shown in our boring logs are based on our interpretations and the actual transition may be gradual. Graphic soil symbols are for illustration only.

Our subsurface descriptions were broken down into two sections: proposed transmission power line borings and retaining wall borings

2.3.2 Proposed Transmission Power Line Borings

This section describes the subsurface conditions encountered in the borings along or near the alignment of the proposed transmission power line, including borings B-8 to B-11, B-GB-10, B-13, B-14/B-BB-3, B-21 to B-27, B-MP-1, B-MP-3, B-MP-4, B-MP-6, and B-MP-9 to MP-11, B-MP-15, B-MP-17, B-MP-19, B-MP-20, and B-MP-22 to B-MP-24.

The soil strata encountered in the borings were as follows, starting at the ground surface:



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Asphalt – A layer of asphalt was encountered in borings B-8, B-MP-3, B-MP-4, B-MP-6, and B-MP-9 to B-MP-11. The depth of the asphalt ranged between 0.7 to 0.9 feet below the ground surface.

Surficial Organic Soil – A layer of surficial organic topsoil and subsoil was encountered in borings B-9, B-10, B-13, B-21 to B-24, B-MP-1, B-MP-19, B-MP-20, and B-MP-22 to B-MP-24. This layer generally consisted of silty sand with organic fines, roots, leaves, grass, and wood. This layer had a thickness ranging between 0.1 and 4 feet but was generally less than 1.5 feet thick.

Fill – A layer of fill was encountered at the ground surface along the abandoned MBTA railroad in borings B-11/B-GB-10, B-BB-3/B-14, B-25 to B-27, B-MP-15, and B-MP-17. Fill was also encountered underneath the asphalt or surficial organic layers, except in borings B-22, B-MP-6, B-MP-10, B-MP-20, B-MP-23, and B-MP-24.

The fill was mostly described as poorly graded sand and less frequently as silty sand or well graded sand. There were two (2) samples in boring B-GB-13 that were described as silty gravel. The fines content in the fill ranged up to 30 percent but was generally between 5 and 20 percent. The gravel content in the fill ranged up to 40 percent, but generally ranged between 5 and 25 percent. The fill contained traces of organic fines, roots, and wood. The fill along Forest Avenue and Wilkins Street contained traces of asphalt. The fill along the abandoned MBTA railroad contained traces of coal ash and slag.

The Standard Penetration Test (SPT) N-values in this layer ranged between 1 and 93 blows per foot (bpf), with most values between 9 and 28 indicating loose to medium dense material.

Buried Organic Soil – A layer of buried organic soil was encountered beneath the fill in borings B-9, B-10, B-11/B-GB-10, B-BB-3/B-14, B-21, B-24, B-27, B-MP-15 and extended to depths of up to 10 feet beneath the ground surface, except in boring B-BB-3/B-14 located near the existing Fort Meadow Brook bridge, where the buried organics extended to a depth of 20 feet below the ground surface. The buried organics contained fibrous peat, organic fines, roots, and wood.

As a part of the Eversource transmission power line project, borings were advanced for the proposed Fort Meadow Brook bridge. In boring B-BB-4, advanced for the proposed bridge, the layer of buried organics extended to a depth of 25 feet.

Sand – A layer of sand was encountered beneath the asphalt, surficial organic soil, fill, or buried organic soil in all the borings and extended to the boring termination depths. The sand layer was mostly described as well graded sand and less frequently as poorly graded sand and occasionally as silty sand. The fines content in the sand ranged up to 30 percent,



but generally ranged between 5 and 20 percent. The gravel content in the sand ranged up to 45 percent, but generally ranged between 5 and 15 percent.

The SPT N-values in the sand ranged between 5 and 135 bpf, with most values between 5 and 49 bpf indicating loose to dense sand.

2.3.3 Proposed Retaining Wall Borings

This section describes the subsurface conditions encountered in the borings along or near the alignment of the proposed retaining wall, including borings B-GB-7, B-GB-8, B-11/B-GB-10, and B-GB-12 to B-GB-16.

The soil strata encountered within the borings were as follows, starting at the ground surface:

Topsoil – A layer of topsoil was encountered at the ground surface of borings B-GB-15 and B-GB-16. The topsoil thickness ranged between 5 and 6 inches.

Fill – A layer of fill was encountered at the ground surface or beneath the topsoil in all the borings advanced along or near the alignment of the proposed retaining wall. The fill extended to depths ranging between 2 and 6.6 feet beneath the ground surface. Coal was encountered at the ground surface in borings B-GB-7, B-GB-8, B-11/B-GB-10, and B-GB-12. The fill was mostly described as silty sand and poorly graded sand with silt, and occasionally as silty gravel. The fines content in the fill ranged between 5 and 40 percent. The gravel content in the fill ranged between 5 and 20 percent. The fill contained traces of asphalt, organic fines, wood, roots, leaves and slag.

The SPT N-values of the fill ranged between 1 and 93 bpf, with most values between 1 and 21 bpf, indicating very loose to medium dense material. The relatively high SPT N-Values recorded in the fill may be caused by cobbles and boulders in the fill and may not represent the true density.

Buried Organic Soil – A layer of buried organic soil was encountered beneath the fill in borings B-GB-7, G-GB-8, and B-11/B-GB-10. The buried organics extended to depths ranging between 6 to 8 feet beneath the ground surface. The buried organics consisted of silty sand with traces of organic fines and roots.

Sand – A layer of sand was encountered beneath the fill or buried organics in all borings advanced near the alignment of the proposed retaining wall. The sand layer extended to the termination depth of the borings. The sand was mostly described as silty sand and less frequently as poorly graded sand or well graded sand. The fines content in the sand ranged between 5 and 30 percent. The gravel content in the sand ranged between 5 and 35.



The SPT N-values in the sand ranged between 9 and over 120 bpf, with most values between 13 and 75 bpf, indicating mostly medium dense to very dense sand.

2.4 Groundwater

2.4.1 General

The groundwater data obtained during drilling and reported in this report is based on observations made during or shortly after completion of our explorations and may not represent the actual groundwater levels, as additional time may be required for the groundwater to stabilize. The groundwater levels presented in this report only represent the conditions encountered at the time and location of our explorations. Seasonal fluctuation should be anticipated.

Please note that our groundwater measurements were performed during the period between May and July. The groundwater levels are anticipated to be higher during the months of the wet season in early spring.

2.4.2 Proposed Transmission Power line

Groundwater was encountered in all the borings advanced along or near the alignment of the proposed transmission power line, except in borings B-8, B-MP-6, B-MP-15, and B-MP-24. Groundwater was encountered at depths of up to 13 feet beneath the ground surface, but generally ranged between 5 and 10 feet along Forest Avenue and Wilkins Street and between 4 and 13 feet along the MBTA railroad.

2.4.3 Proposed Retaining Wall

Groundwater was encountered in all the borings along or near the alignment of the proposed retaining wall at depths of up to 20 feet beneath the ground surface, but generally ranged between 8 and 15 feet.

The groundwater levels measured during drilling are based on observations made shortly after the completion of the explorations. Note that water was introduced into each borehole to maintain a stable borehole and the water levels noted may not represent the actual groundwater level, as additional time may be required for the groundwater levels to stabilize. The groundwater levels presented in this report only represent the conditions encountered at the time and location of the explorations. Seasonal fluctuation should be anticipated.



2.5 Borehole Permeability Tests

LGCI performed two (2) falling head borehole permeability tests in borings B-MP-19 and B-24. The tests were performed by filling the drill casing with water and measuring the drop in water level inside the casing. The tests were performed at the depths shown below:

- Boring B-MP-19: 12 feet to 14 feet
- Boring B-24: 12 feet to 14 feet,

The results of the borehole permeability tests are included in Attachment C. The results indicated that permeability of the soil at depths of 12 to 14 feet in borings B-MP-19 and B-24 is about 1.1×10^{-4} cm/sec and 3.3×10^{-4} cm/sec, respectively.

2.6 Laboratory Test Data

LGCI submitted six (6) samples for laboratory testing. The results are summarized in the table below. The laboratory data sheets are included in Appendix B.

Results of Grain-size Analyses

Boring No.	Sample No.	Stratum	Sample depth (ft.)	Percent Gravel	Percent Sand	Percent Fines
B-24	S4	Nat. Sand	6 – 8	0.7	94.2	5.1
B-24	S7	Nat. Sand	12 – 14	0.0	96.1	3.9
B-GB-13	S2	Fill	2 – 4	42.6	41.8	15.6
B-GB-16	S3	Nat. Sand	4 – 6	7.0	88.7	4.3
B-GB-19	S4	Nat. Sand	6 – 8	9.1	71.5	19.4
B-GB-19	S7	Nat. Sand	12 – 14	28.4	67.9	3.7



3. EVALUATION AND RECOMMENDATIONS

3.1 General

Based on our understanding of the proposed transmission power line, our observation of the borings, and the results of our laboratory testing, there are a few issues that we would like to highlight for consideration and discussion.

- Buried organic soil was encountered in many borings. The depth to the bottom of the organic soil was generally less than 10 feet. Accordingly, the presence of the organic soil is not anticipated to affect the proposed vaults. The proposed vaults should be supported on Structural Fill placed directly on top of the natural sand. Our recommendations for bearing resistance for the proposed vaults are presented in Section 3.2.
- The sheet pile wall is well suited for the subsurface conditions encountered in our borings, as it will not require the removal of the existing fill and the buried organic soil. The presence of the organic soil may result in longer sheet piles. Also, fill placed to raise the grades near the proposed retaining wall will result in settlement induced by the compression of the buried organic soil. This settlement will not affect the proposed vaults, transmission power lines, or sheet pile retaining wall. The contractor should be prepared to pre-trench to remove boulders at locations where boulders are encountered ahead of the sheet pile driving operations.
- At Sta. 119+25, the proposed wall will cross an existing culvert with a diameter of about 2 feet. Soldier piles could be driven on both sides of the existing culvert and should be fastened to the sheet pile wall on either side. Pressure treated wood or concrete lagging could be used down to the top of the culvert. The wedges on the sides of the existing culvert should be filled with flowable fill or drypack.
- The subsurface conditions encountered in our borings are in general suitable to support the proposed duct bank encasement of the proposed transmission power line as the trench for the proposed transmission power line will terminate in existing fill or natural soil. In a few locations, the proposed transmission power line trench will terminate in the organic soil or at the bottom of the existing fill, just above the organic soil. At these locations, we recommend over-excavating the organic soil and backfilling the trench to the bottom of the proposed transmission power line using suitable backfill. Where the organic soil is more than 2 feet from the bottom of the proposed transmission power line trench, the organic soil should not be removed. Additional recommendations for supporting the proposed transmission power line are presented in Section 4.1.
- Boulders were encountered at boring B-MP-3 at a depth of 6 feet and drill chattering was observed in the borings along the MBTA railroad. The contractor should be prepared to encounter boulders during excavation and should be prepared to remove the boulders from the site.



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- The existing fill along the MBTA railroad contained varying amounts of organic matter and coal. Due to the presence of coal ash, these materials will have to be pre-characterized before disposal offsite. To reduce the quantity of material to be disposed of offsite, the contractor should be prepared to segregate the inorganic portion of the existing fill and amend it as needed to improve its gradation for reuse as backfill.. Our recommendations for fill materials and for reuse of onsite materials are presented in Sections 4.3 and 4.4, respectively.
- We anticipate that groundwater control will be required to construct the proposed vaults. The design and the construction sequence should be performed so as to allow for the construction of the proposed vaults in a dry excavation and to reduce the potential for uplift of the vault at the end of dewatering operations. Groundwater control will also be required along portions of the transmission power line trenches. Our recommendations for groundwater control are presented in Section 4.7.
- Foundations should be designed in accordance with the requirements of the Massachusetts State Building Code, Ninth Edition (MSBC 9th edition).

3.2 Vault Recommendations

- We recommend supporting the proposed vaults on a minimum of 12 inches of Structural Fill bearing on natural sand. In areas where the proposed transmission power line trench terminates in the buried organic soil or less than 2 feet from the top of the organic soil, the organic soil should be removed at least 2 feet beneath the bottom of the trench or to the natural sand, whichever occurs first.
- We recommend an allowable bearing pressure of 3 kips per square foot (ksf) for vaults bearing on natural sand.
- The vaults should be designed with slabs and walls thick enough such that the weight of the vault resists uplift pressure. We recommend a minimum factor of safety of 1.1 against uplift.
- We recommend that the vault walls be designed using at-rest pressure and to resist the hydrostatic pressure as described in section 3.4.

3.3 Seismic Design

In accordance with Section 1613 of MSBC 9th Edition, the seismic criteria for the site are as follows:

Site Class:	D
Spectral Response Acceleration at short period (S _s):	0.197g
Spectral Response Acceleration at 1 sec. (S ₁):	0.068g
Site Coefficient F _a (Table 9.4.1.2.4a):	1.6



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Site Coefficient F_v (Table 9.4.1.2.4b):	2.4
Adjusted spectral response S_{ms} :	0.315 g
Adjusted spectral responses S_{m1} :	0.163g

Based on our observations of the borings, the natural soil layer at the site is not susceptible to liquefaction during a seismic event.

3.4 Lateral Pressures for Wall Design

Lateral earth pressures recommended for design of the proposed retaining wall and vault walls are provided in the section below.

We recommend using the following values for retaining wall design:

Coefficient of Active Earth Pressure, K_A :	0.31
Coefficient of Active Earth Pressure, K_P in Top 5 feet	2.0
Coefficient of Active Earth Pressure, K_P at depths greater than 5 feet:	4.1
Coefficient of At-Rest Earth Pressure, K_0 :	0.50
Friction Angle between Backfill and Back of Wall, δ :	10 degrees
Total Unit Weight, γ :	120 pcf
Buoyant Unit Weight γ' :	57.4 pcf

Note: The coefficient of active pressure value is based on Coulomb's equation using an internal friction angle for the backfill, ϕ , of 30 degrees and a friction angle between the backfill and the structure, δ , of 10 degrees. The coefficients of active and at-rest earth pressure are provided for wall backfill with a horizontal surface (non-sloping backfill) on the active side for the retaining wall. The coefficient of passive earth pressure is provided for a sloping ground with a slope of 3H:1V in the top 5 feet.

- The proposed vault walls should be designed using the “at-rest” pressure coefficient.
- The length of the proposed sheet pile wall obtained using the design parameters recommended above should be increased by the thickness of the buried topsoil.
- We recommend placing free-draining material consisting of Structural Fill or crushed stone within the 3 feet immediately behind retaining walls. The sheet pile wall should be provided with weep hole near the bottom of the wall to promote drainage.
- The design of the sheet pile wall should include a traffic surcharge equivalent to 200 pounds per square foot.

3.5 Seismic Pressure

In accordance with the MSBC 9th Edition, Section 1610, a lateral earthquake force equal to $0.100 \cdot (S_s) \cdot (F_a) \cdot \gamma \cdot H^2$ should be included in the design of walls (for horizontal backfill), where S_s



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is the maximum considered earthquake spectral response acceleration (defined in Section 3.3), F_a is the site coefficient (defined in Section 3.3), γ is the total unit weight of the soil backfill, and H is the height of the wall.

The earthquake force should be distributed as an inverted triangle over the height of the wall. In accordance with MSBC 9th Edition, Section 1610.2, a load factor of 1.43 shall be applied to the earthquake force for wall strength design.

Temporary surcharges should not be included when designing for earthquake loads. Surcharge loads applied for extended periods of time shall be included in the total static lateral soil pressure and their earthquake lateral force shall be computed and added to the force determined above.



4. CONSTRUCTION CONSIDERATIONS

4.1 Subgrade Preparation

- Existing asphalt, existing fill, organic soil, abandoned utilities, and other below-ground structures should be entirely removed from within an area extending at least 2 feet beyond the limits of the proposed vaults.
- The proposed vault excavations should extend to 12 inches below the proposed bottom of vaults. Should existing fill, organic soil, or other deleterious material be present at these depths, it should be removed and replaced with compacted Structural Fill to the top of the natural sand or 2 feet beneath the bottom of the proposed vault, whichever occurs first.
- The subgrade of the vaults in the natural sand, should be compacted with a dynamic vibratory compactor imparting a minimum of 10 kips of force to the subgrade.
- Should boulders be encountered at the vault subgrade, the boulders should be removed, and the resulting excavation should be backfilled with compacted Structural Fill meeting the gradation requirements in Section 4.3.
- Loose or soft soils identified during the compaction of the footing subgrades that cannot be compacted in place should be excavated to a suitable bearing stratum as determined by the representative of LGCI. Grades should be restored by backfilling with Structural Fill.
- When crushed stone is required in the drawings or it is used for the convenience of the contractor, it should be wrapped in a geotextile fabric for separation except where introduction of the geotextile promotes sliding. A geotextile should not be placed between the bottoms of the footings and crushed stone.
- The proposed transmission power line trench should extend to at least 12 inches beneath the bottom of the transmission power line. Where the excavation terminates in organic soil or less than 2 feet from the top of the organic soil, the excavation should be continued to the natural sand layer or 2 feet beneath the bottom of the transmission power line, whichever occurs first. The over-excavation should be backfilled with Ordinary Fill meeting the gradation requirements in Section 4.3.
- An LGCI representative should observe the exposed foundation subgrades prior to fill and concrete placement to verify that the exposed bearing materials are suitable for the design soil bearing pressure. If soft or loose pockets are encountered in the footing excavations, the soft or loose materials that cannot be compacted in place should be removed, and the bottom of the footing should be placed at a lower elevation on firm soil, or the resulting excavation should be backfilled with Gravel Borrow, or crushed stone wrapped in a filter fabric.



4.2 Subgrade Protection

The onsite natural sand is frost susceptible. If construction takes place during freezing weather, special measures should be taken to prevent the subgrade from freezing. Such measures should include the use of heat blankets or excavating the final six inches of soil just before pouring concrete. Soil used as backfill should be free of frozen material, as should the ground on which it is placed. Filling operations should be halted during freezing weather.

Materials with high fines content are typically difficult to handle when wet as they are sensitive to moisture content variations. Subgrade support capacities may deteriorate when such soils become wet and/or disturbed. The contractor should keep exposed subgrades properly drained and free of ponded water. Subgrades should be protected from machine and foot traffic to reduce disturbance.

4.3 Fill Materials

Structural Fill and Ordinary Fill should consist of inert, hard, durable sand and gravel, free from organic matter, clay, surface coatings and deleterious materials, and should conform to the gradation requirements shown below.

4.3.1 Structural Fill

The Structural Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Structural Fill should be compacted in maximum 9-inch loose lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of optimum moisture content.

Sieve Size	Percent Passing by Weight
3 inches	100
1 ½ inch	80 - 100
½ inch	50 – 100
No. 4	30 – 85
No. 20	15 – 60
No. 60	5 – 35
No. 200*	0 – 10

4.3.2 Ordinary Fill

Ordinary Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Ordinary Fill should be compacted in maximum 9-inch loose



**Geotechnical Report
Proposed Transmission Power Line Borings
Hudson, Massachusetts
LGCI Project No. 1836**

lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of optimum moisture content.

Sieve Size	Percent Passing by Weight
6 inches	100
1 inch	50 - 100
No. 4	20 - 100
No. 20	10 - 70
No. 60	5 - 45
No. 200	0 - 20

4.4 Reuse of Onsite Materials

Based on our field observations and the results of the grain-size analyses, we do not anticipate that the site soils will meet the gradation requirements of Structural Fill. Some of the existing fill meets the gradation requirements of Ordinary Fill. Should the contractor encounter materials potentially suitable for reuse during earthwork operations, the contractor should avoid mixing the reusable soils with unsuitable soils. The soils to be reused should be excavated and stockpiled separately for compliance testing. The contractor should be prepared to amend the existing fill free of organics to meet the gradation requirements for Ordinary Fill for reuse as trench backfill.

Soils with 20 percent or greater fines content are generally very sensitive to moisture content variations and are susceptible to frost. Such soils are very difficult to compact at moisture contents that are much higher or much lower than the optimum moisture content determined from the laboratory compaction test. Therefore, strict moisture control should be implemented during compaction of onsite soils with fines contents of 20 percent or greater. The contractor should be prepared to remove and replace such soils if pumping occurs.

4.5 Contractor Submittals

The contractor should submit details about the construction procedures, including:

- The proposed construction sequence;
- Temporary earth support system for the proposed vaults if any; and
- Groundwater control system.

Contractor submittals should be prepared and sealed by a professional engineer registered in the Commonwealth of Massachusetts and should be submitted for review at least two weeks before the start of the work.



4.6 Temporary Excavations

All excavations to receive human traffic should be constructed in accordance with the OSHA guidelines.

The site soils should generally be considered Type “C” and should have a maximum allowable slope of 1.5 Horizontal to 1 Vertical (1.5H:1V) for excavations less than 20 feet deep. Deeper excavations, if needed, should have shoring designed by a professional engineer.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of the excavation sides and bottom.

4.7 Groundwater Control Procedures and Flow Rate Estimates

4.7.1 General

We anticipate that groundwater control procedures will be needed during the excavation for the proposed vaults to handle the groundwater. We recommend that the contractor design and submit a plan to collect and remove groundwater prior to the start of the excavations. Such a plan should include at a minimum multiple sump pump pits extending at least 3 feet beneath the bottom of the excavation.

Groundwater levels should be maintained at a minimum of 1-foot below the bottom of excavations during construction. The contractor should be permitted to employ whatever commonly accepted means and practices are available to dewater.

To reduce the potential for sinkholes developing over sump pump pits after the sump pumps are removed, the crushed stone placed in the sump pump pits should be wrapped in a geotextile fabric. Alternatively, the crushed stone should be entirely removed after the sump pump is no longer in use and the sump pump pit should be restored with suitable backfill.

Groundwater collected from excavations should be filtered for fines in sedimentation basins before being discharged. At a minimum, the sedimentation basins should be constructed of hay bales wrapped in a geotextile fabric.

The contractor should discharge groundwater from the dewatering system in accordance with permits and local and state regulations.



4.7.2 Flow Rate Estimates

We estimated the anticipated quantity of flow in the proposed vault excavations and the proposed utility trench. We assumed a groundwater depth of 5 feet, vault excavation dimensions of 30 feet by 10 feet with an excavation depth of 12 feet, and a utility trench depth of 6 feet.

Using the coefficient of permeability values listed in Sections 2.5, we estimate a quantity of flow ranging between 1,000 and 3,000 gal/day for the proposed vaults and between 12.5 and 37.5 gal/day per foot of excavation for the proposed transmission line.



5. RECOMMENDATIONS FOR FUTURE WORK

We recommend engaging LGCI to perform the following services:

- Assist VHB during the design of the proposed sheet pile wall;
- Review the geotechnical aspects of contractor submittals.
- Provide a field representative to observe the subgrades of foundations during construction.



6. REPORT LIMITATIONS

Our analysis and recommendations are based on project information provided to us at the time of this report. If changes to the type, size, and location of the proposed structures or to the site grading are made, the recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions and recommendations modified in writing by LGCI. LGCI cannot accept responsibility for designs based on our recommendations unless we are engaged to review the final plans and specifications to determine whether any changes in the project affect the validity of our recommendations and whether our recommendations have been properly implemented in the design.

It is not part of our scope to perform a more detailed site history; therefore, we have not explored for or researched the locations of buried utilities or other structures in the area of the proposed construction. Our scope did not include environmental services or services related to moisture, mold, or other biological contaminants in or around the site.

The recommendations in this report are based in part on the data obtained from the subsurface explorations. The nature and extent of variations between explorations may not become evident until construction. If variations from anticipated conditions are encountered, it may be necessary to revise the recommendations in this report. We cannot accept responsibility for designs based on recommendations in this report unless we are engaged to 1) make site visits during construction to check that the subsurface conditions exposed during construction are in general conformance with our design assumptions and 2) ascertain that, in general, the work is being performed in compliance with the contract documents.

Our report has been prepared in accordance with generally accepted engineering practices and in accordance with the terms and conditions set forth in our agreement. No other warranty, expressed or implied, is made. This report has been prepared for the exclusive use of Vanasse Hangen Brustlin, Inc. for the specific application to the proposed transmission power line in Hudson, Massachusetts as conceived at this time.



7. REFERENCES

In addition to the references included in the text of the report, we used the following references:

The Commonwealth of Massachusetts (2010), “The Massachusetts State Building Code, Eighth Edition,” comprised of the International Building Code (IBC-2009) and 780 CMR: Massachusetts Amendments to IBC-2009.

The Department of Labor, Occupational Safety and Health Administration (1989), “Occupational Safety and Health Standards - Excavations; Final Rule,” 20 CFR Part 1926, Subpart P.

US Geological Survey Hudson, MA Topo Map from <http://mapserver.mytopo.com>.



Appendix A - LGCI's Boring Logs

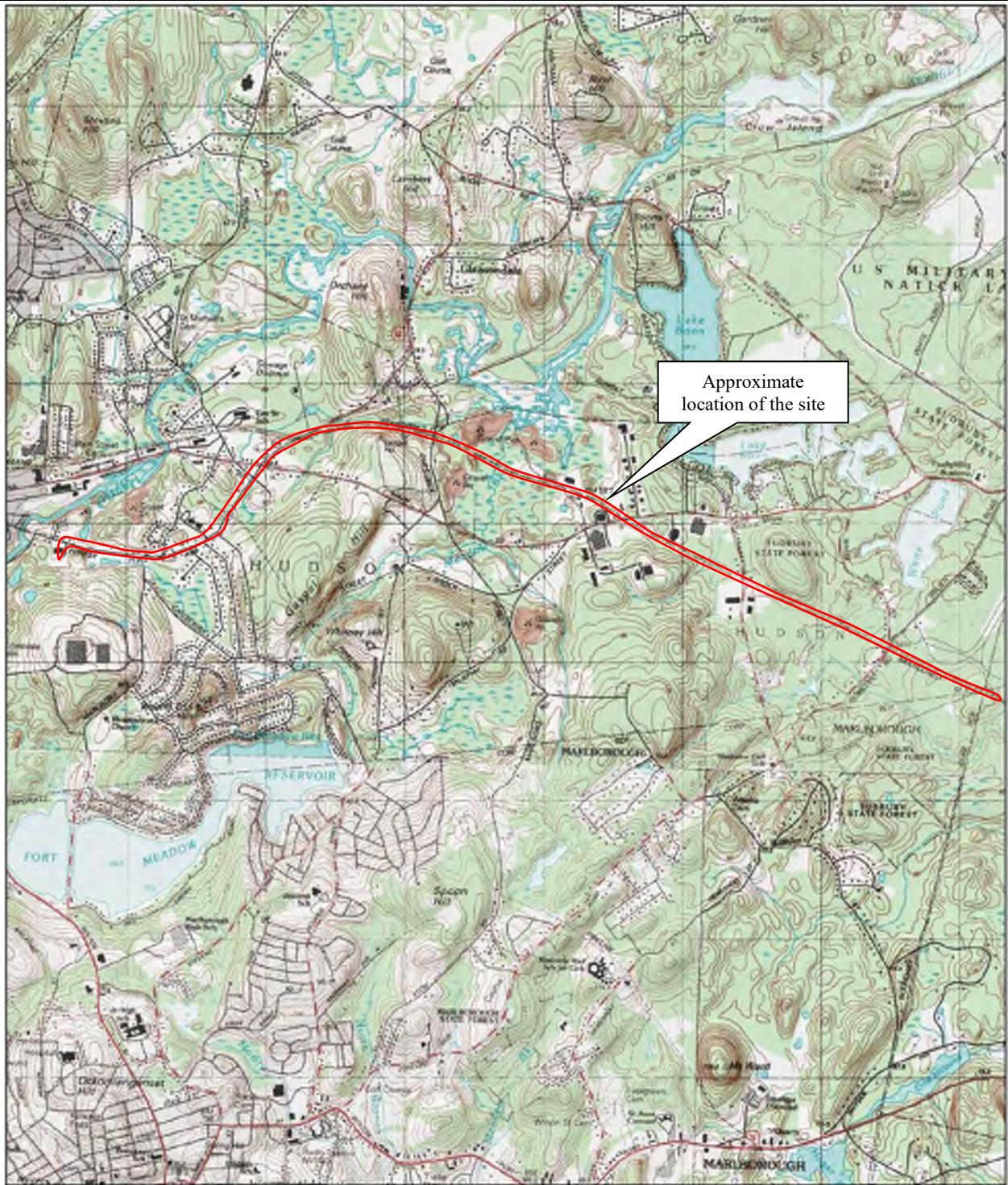
Appendix B - LGCI's Laboratory Test Results

Appendix C - Borehole Permeability Tests

**Table 1 - Summary of LGCI's Borings
Proposed Transmission Power Line Borings
Hudson, MA
LGCI Project No. 1836**

Boring No. ¹	Ground Surface Elevation (ft.) ²	Groundwater Depth / El. (ft.) ³	Bottom of Asphalt Depth / El. (ft.)	Bottom of Topsoil/Subsoil Depth / El. (ft.)	Bottom of Fill Depth / El. (ft.)	Bottom of Buried Organics Depth / El. (ft.)	Bottom of Boring Depth / El. (ft.)
B-8	218.0	- / -	0.7 / 217.3	- / -	6 / 212.0	- / -	10.0 / 208.0
B-9	224.0	13.0 / 211.0	- / -	0.1 / 223.9	6 / 218.0	10.0 / 214.0	16.0 / 208.0
B-10	214.0	9.3 / 204.7	- / -	0.1 / 213.9	6 / 208.0	9.3 / 204.7	14.0 / 200.0
B-11/B-GB-10	205.0	15.0 / 190.0	- / -	- / -	6 / 199.0	8.0 / 197.0	21.6 / 183.4
B-13	187.0	9.0 / 178.0	- / -	0.4 / 186.6	11.4 / 175.6	- / -	15.0 / 172.0
B-BB-3/B-14	180.0	6.0 / 174.0	- / -	- / -	8 / 172.0	20.0 / 160.0	101.0 / 79.0
B-21	211.0	8.0 / 203.0	- / -	0.5 / 210.5	2 / 209.0	2.7 / 208.3	16.0 / 195.0
B-22	215.0	7.7 / 207.3	- / -	1.4 / 213.6	- / -	- / -	10.0 / 205.0
B-23	211.0	10.0 / 201.0	- / -	0.5 / 210.5	2 / 209.0	- / -	16.0 / 195.0
B-24	200.0	12.0 / 188.0	- / -	0.5 / 199.5	4 / 196.0	6.0 / 194.0	14.0 / 186.0
B-25	192.0	4.0 / 188.0	- / -	- / -	4 / 188.0	- / -	16.0 / 176.0
B-26	191.0	4.0 / 187.0	- / -	- / -	0.6 / 190.4	- / -	10.0 / 181.0
B-27	192.0	4.0 / 188.0	- / -	- / -	0.9 / 191.1	4.0 / 188.0	15.0 / 177.0
B-GB-7	208.0	8.0 / 200.0	- / -	- / -	2.3 / 205.7	6.0 / 202.0	11.7 / 196.3
B-GB-7A	208.0	10.0 / 198.0	- / -	- / -	- / -	- / -	32.0 / 176.0
B-GB-8	208.0	10.0 / 198.0	- / -	- / -	2 / 206.0	6.0 / 202.0	22.0 / 186.0
B-GB-12	205.0	20.0 / 185.0	- / -	- / -	3 / 202.0	- / -	32.0 / 173.0
B-GB-13	203.0	15.0 / 188.0	- / -	- / -	6 / 197.0	- / -	32.0 / 171.0
B-GB-14	202.0	15.0 / 187.0	- / -	- / -	6.6 / 195.4	- / -	22.0 / 180.0
B-GB-15	202.0	16.1 / 185.9	- / -	0.5 / 201.5	2 / 200.0	- / -	22.0 / 180.0
B-GB-16	203.0	15.0 / 188.0	- / -	0.4 / 202.6	2.5 / 200.5	- / -	32.0 / 171.0
B-MP-1	214.0	10.0 / 204.0	- / -	2 / 212.0	6 / 208.0	- / -	15.0 / 199.0
B-MP-3	227.0	5.0 / 222.0	0.9 / 226.1	- / -	6 / 221.0	- / -	12.5 / 214.5
B-MP-4	231.0	10.0 / 221.0	0.9 / 230.1	- / -	4 / 227.0	- / -	16.0 / 215.0
B-MP-6	240.0	- / -	0.8 / 239.2	- / -	- / -	- / -	10.0 / 230.0
B-MP-9	232.0	5.0 / 227.0	0.8 / 231.2	- / -	5.5 / 226.5	- / -	15.0 / 217.0
B-MP-10	231.0	8.0 / 223.0	0.9 / 230.1	- / -	- / -	- / -	10.0 / 221.0
B-MP-11	221.0	6.0 / 215.0	0.7 / 220.3	- / -	5 / 216.0	- / -	16.0 / 205.0
B-MP-15	198.0	- / -	- / -	- / -	4 / 194.0	6.0 / 192.0	10.0 / 188.0
B-MP-17	184.0	6.0 / 178.0	- / -	- / -	3.1 / 180.9	- / -	15.0 / 169.0
B-MP-19	190.0	10.0 / 180.0	- / -	0.3 / 189.7	6 / 184.0	- / -	14.0 / 176.0
B-MP-20	200.0	10.0 / 190.0	- / -	1.1 / 198.9	- / -	- / -	16.0 / 184.0
B-MP-22	211.0	6.0 / 205.0	- / -	0.6 / 210.4	2 / 209.0	- / -	10.0 / 201.0
B-MP-23	211.0	8.0 / 203.0	- / -	2.3 / 208.7	- / -	- / -	16.0 / 195.0
B-MP-24	180.0	- / -	- / -	4 / 176.0	- / -	- / -	10.0 / 170.0

- The boring numbers are not in sequence as many borings were renumbered prior to the start of drilling. Borings labeled "B" were borings that included geotechnical and thermal resistivity sampling. Borings labeled "GB" were borings that included geotechnical sampling for the proposed retaining wall. Borings labeled "BB" were borings that included geotechnical sampling for the proposed bridge. Borings labeled "MP" were multipurpose borings that included geotechnical, thermal resistivity, and oil and/or hazardous materials sampling.
- The ground surface elevations was interpolated to the nearest foot from a plan titled: "Proposed Conditions Plan for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc. and dated February 14, 2018.
- Groundwater observed at the end of drilling or based on sample moisture, as indicated on the boring logs.
- "-" means layer not encountered.




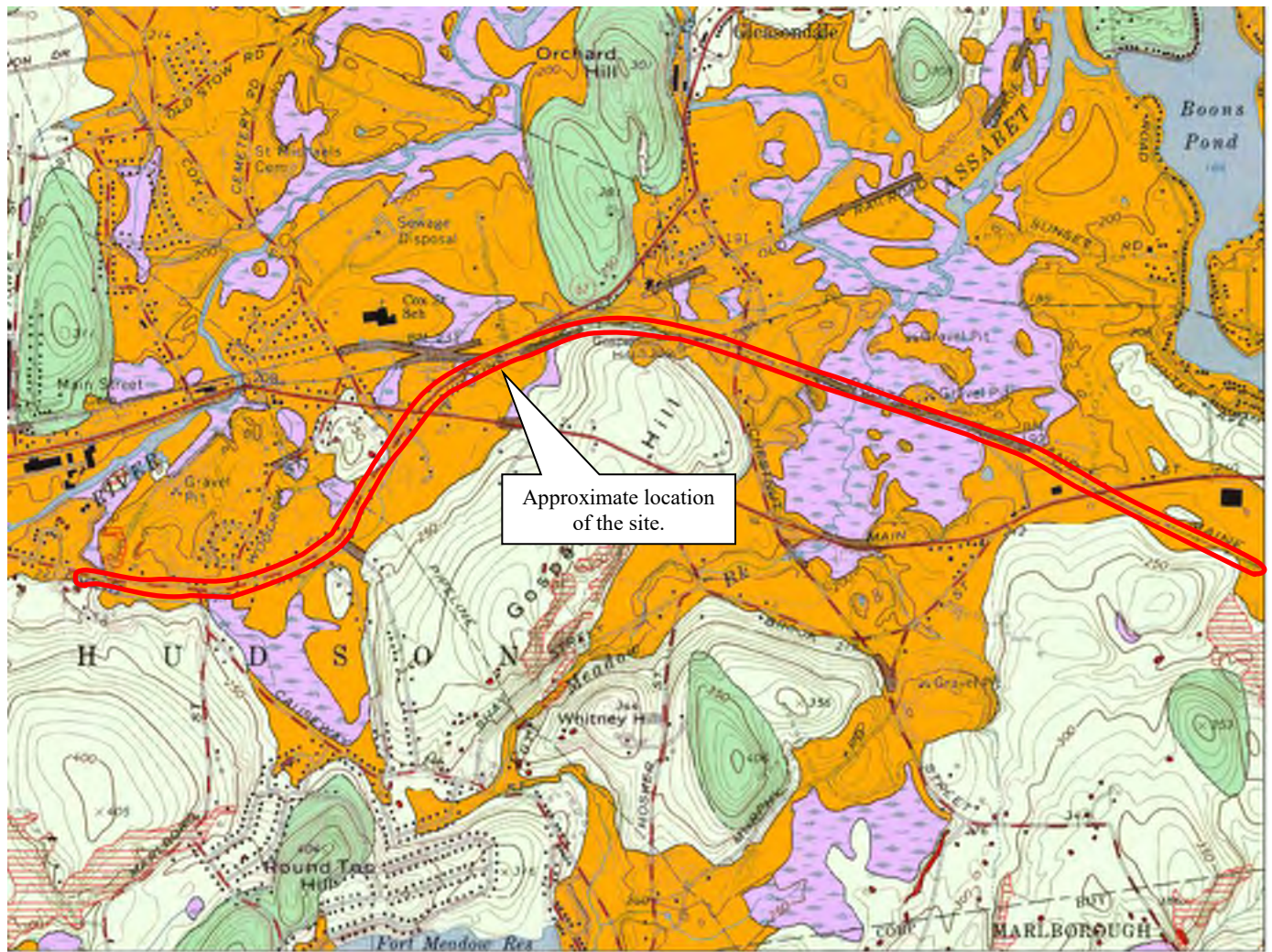



 Map provided by MyTopo.com


Contour Intervals: 3 meters

Figure based on USGS topographic map of Hudson, MA obtained from www.mytopo.com/maps

Client:	Project:	Figure 1 – Site Location Map	
Vanasse Hangen Brustlin, Inc.	Proposed Transmission Power Line Borings		
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



- 
Coarse deposits include: Gravel deposits composed mainly of gravel-sized clasts; cobbles and boulders predominate; minor amounts of sand within gravel beds, and sand comprises few separate layers. Gravel layers generally are poorly sorted and bedding commonly is distorted and faulted due to postdepositional collapse related to melting of ice. Sand and gravel deposits composed of mixtures of gravel and sand within individual layers and as alternating layers. Sand and gravel layers generally range from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. Layers are well to poorly sorted; bedding may be distorted and faulted due to postdepositional collapse. Sand deposits composed mainly of very coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25 percent gravel particles, generally granules and pebbles; finer layers may contain some very fine sand, silt, and clay.

- 
Thin till—Nonsorted, nonstratified matrix of sand, some silt, and little clay containing scattered gravel clasts and few large boulders; in areas where till is generally less than 10-15 ft thick and including areas of bedrock outcrop where till is absent. Predominantly upper till of the last glaciation; loose to moderately compact, generally sandy, commonly stony. Two facies are present in some places: a looser, coarser-grained ablation facies, melted out from supraglacial position; and an underlying more compact, finer-grained lodgement facies deposited subglacially. In general, both ablation and lodgement facies of upper till derived from fine-grained bedrock are finer grained, more compact, less stony and have fewer surface boulders than upper till derived from coarser grained crystalline rocks. Fine-grained bedrock sources include the red Mesozoic sedimentary rocks of the Connecticut River lowland, marble in the western river valleys, and fine-grained schists in upland areas.



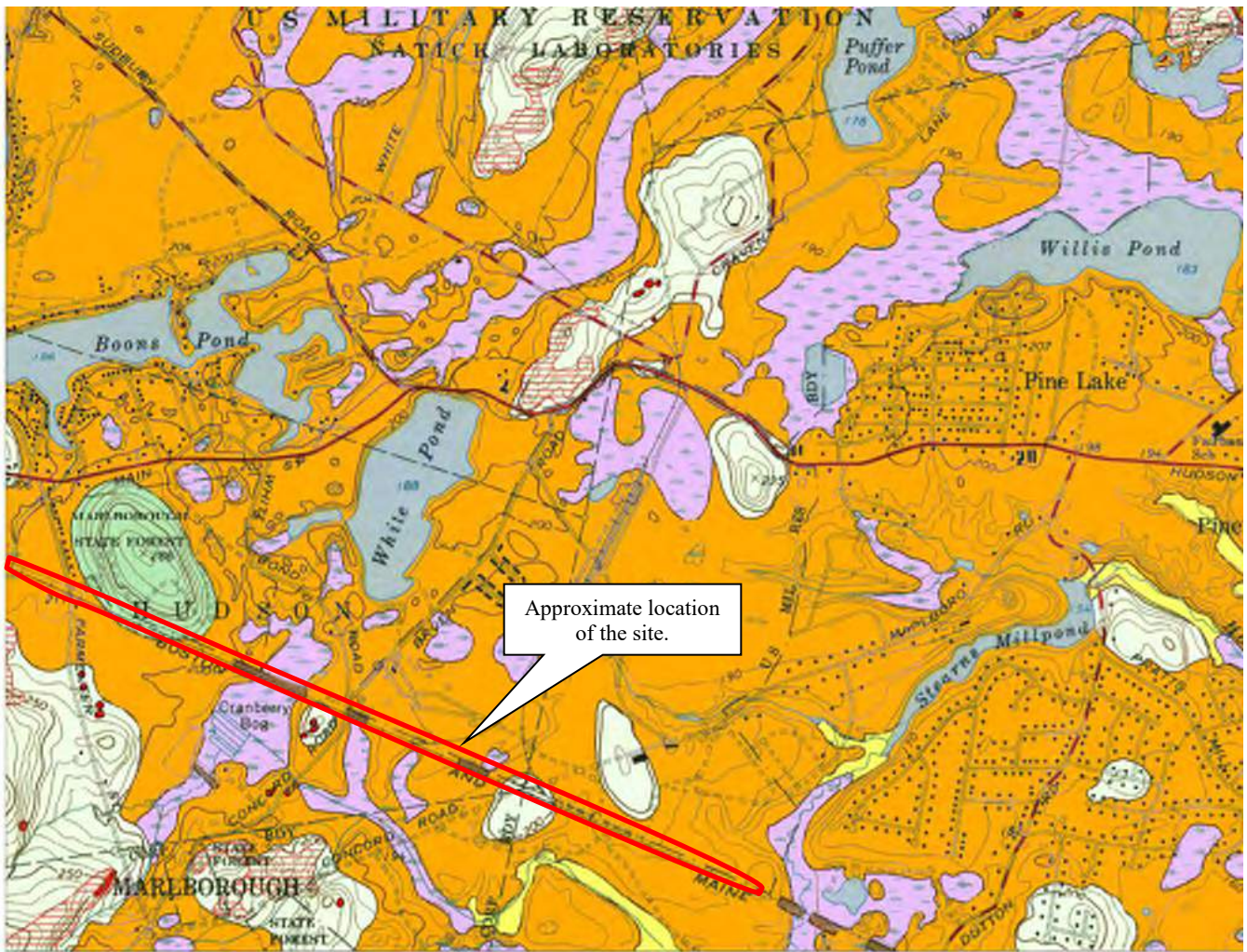
- 
Swamp deposits—Organic muck and peat that contain minor amounts of sand, silt, and clay, stratified and poorly sorted, in kettle depressions or poorly drained areas. Most swamp deposits are less than about 10 ft thick. Swamp deposits overlie glacial deposits or bedrock. They locally overlie glacial till even where they occur within thin glacial meltwater deposits.



Figure based on map titled: "Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts," prepared by Stone, B.D. and Stone, J.R. for U.S. Geological Survey, Open-File Report 2006-1260-A, 2006.

Client:	Project:	Figure 2A – Surficial Geologic Map	
Vanasse Hangen Brustlin, Inc.	Proposed Transmission Power Line Borings		
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018







- 
Coarse deposits include: Gravel deposits composed mainly of gravel-sized clasts; cobbles and boulders predominate; minor amounts of sand within gravel beds, and sand comprises few separate layers. Gravel layers generally are poorly sorted and bedding commonly is distorted and faulted due to postdepositional collapse related to melting of ice. Sand and gravel deposits composed of mixtures of gravel and sand within individual layers and as alternating layers. Sand and gravel layers generally range from 25 to 50 percent gravel particles and from 50 to 75 percent sand particles. Layers are well to poorly sorted; bedding may be distorted and faulted due to postdepositional collapse. Sand deposits composed mainly of very coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25 percent gravel particles, generally granules and pebbles; finer layers may contain some very fine sand, silt, and clay.
- 
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- 
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Figure based on map titled: "Surficial Geologic Map of the Clinton-Concord-Grafton-Medfield 12-Quadrangle Area in East Central Massachusetts," prepared by Stone, B.D. and Stone, J.R. for U.S. Geological Survey, Open-File Report 2006-1260-A, 2006.

Client:	Project:	Figure 2B – Surficial Geologic Map	
Vanasse Hangen Brustlin, Inc.	Proposed Transmission Power Line Borings	Figure 2B – Surficial Geologic Map	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

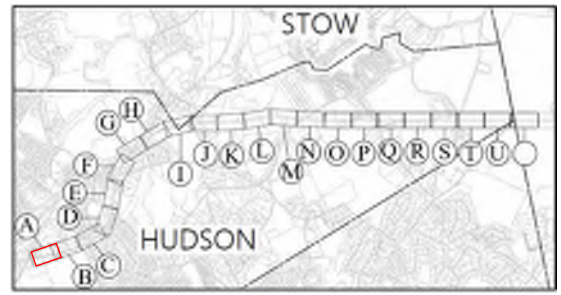


See Figure 3B

Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

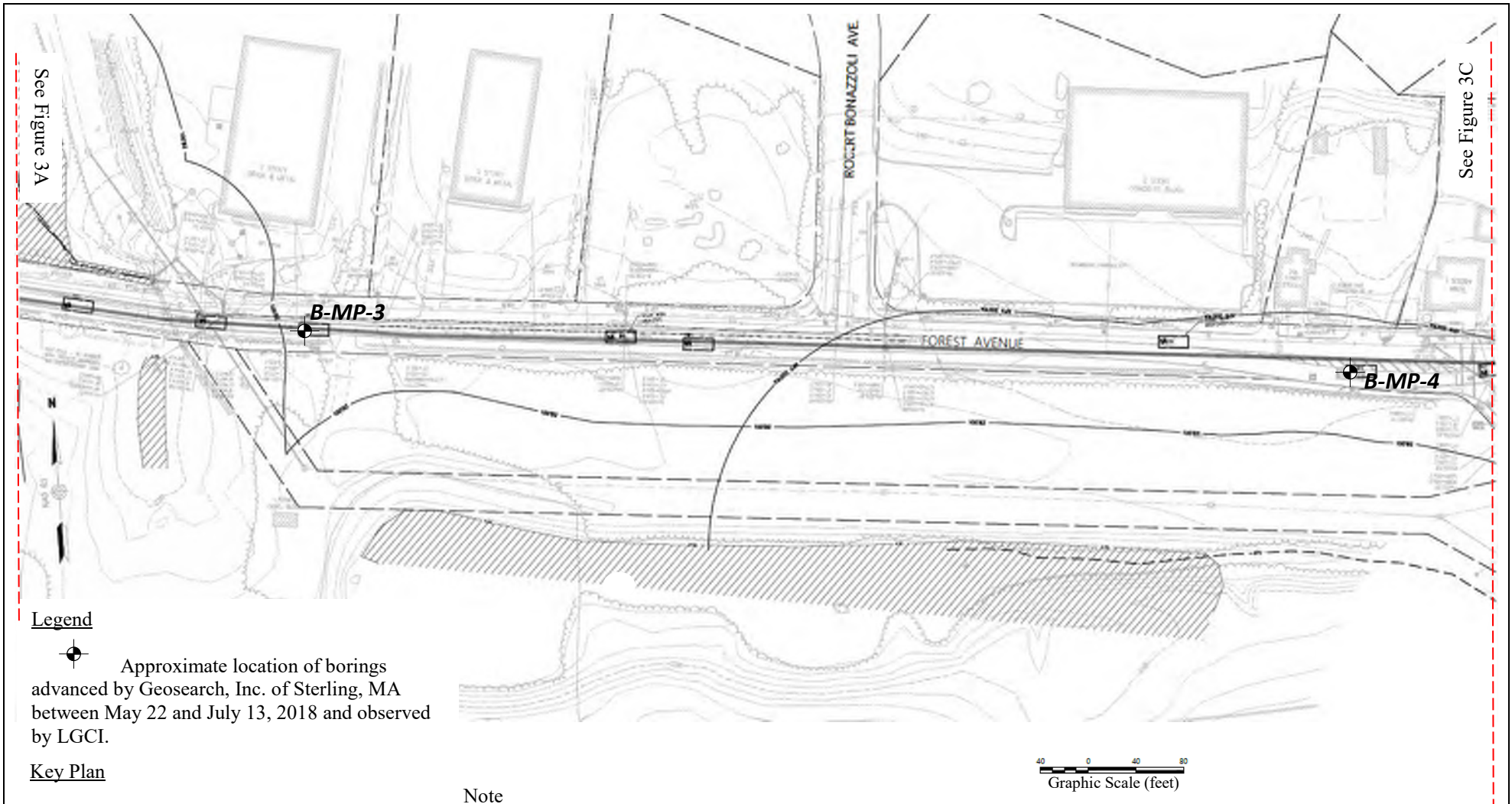
Key Plan



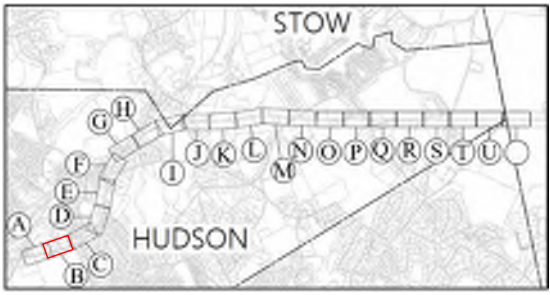
Note


Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

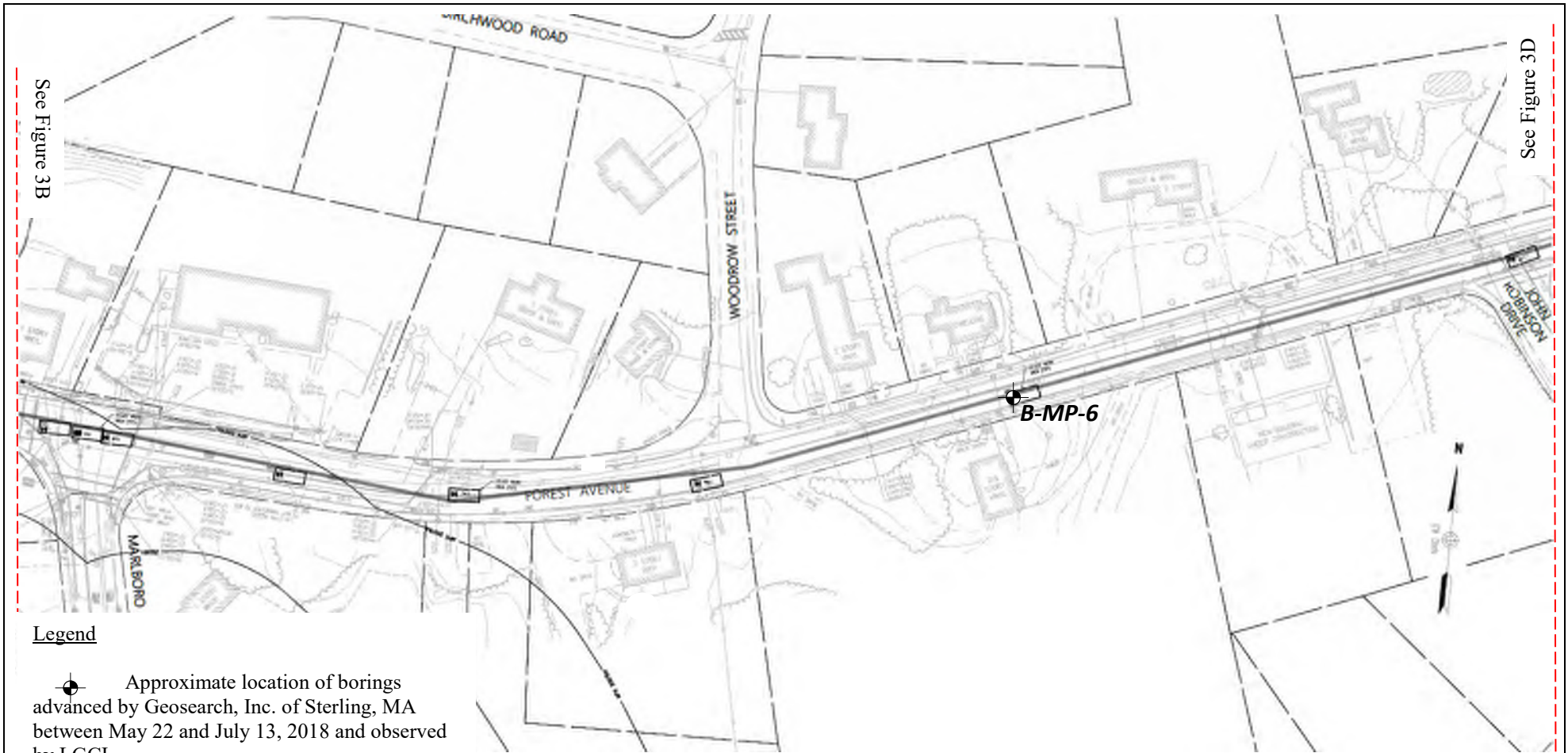
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3A – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018




Note
 Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.



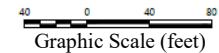
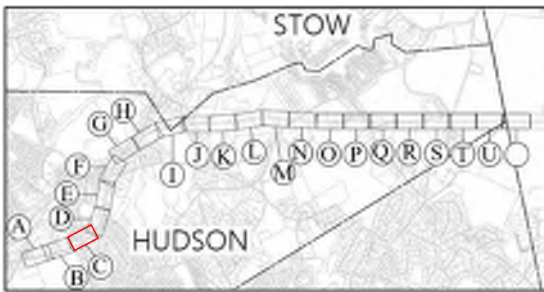
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3B – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



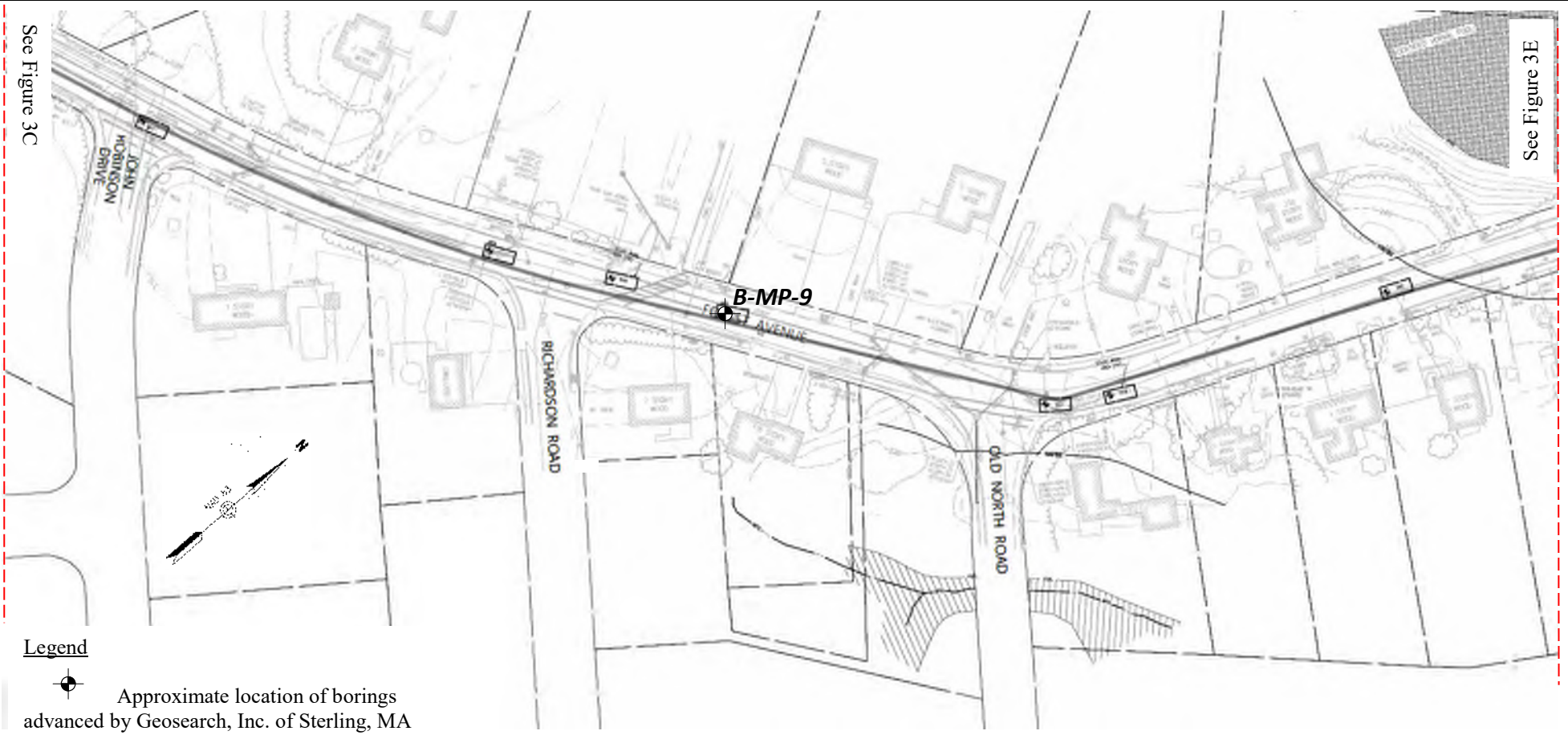
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3C – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3C

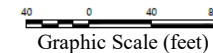
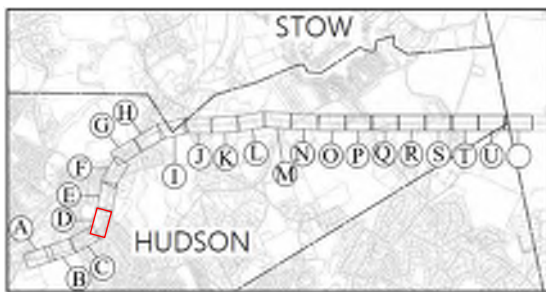
See Figure 3E



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

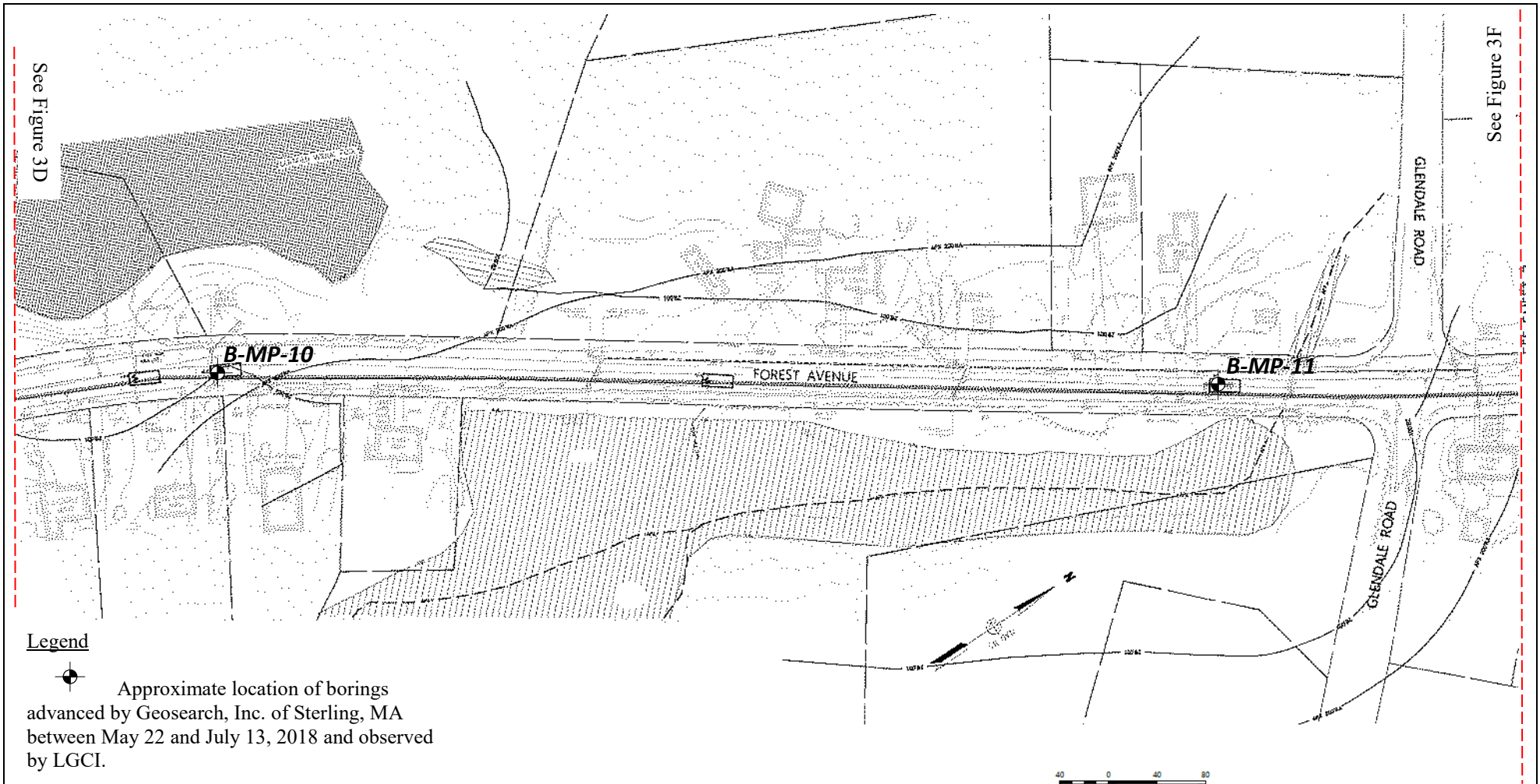
Key Plan



Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3D – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



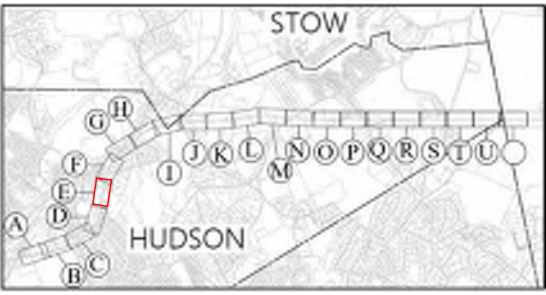
See Figure 3D

See Figure 3F


Legend

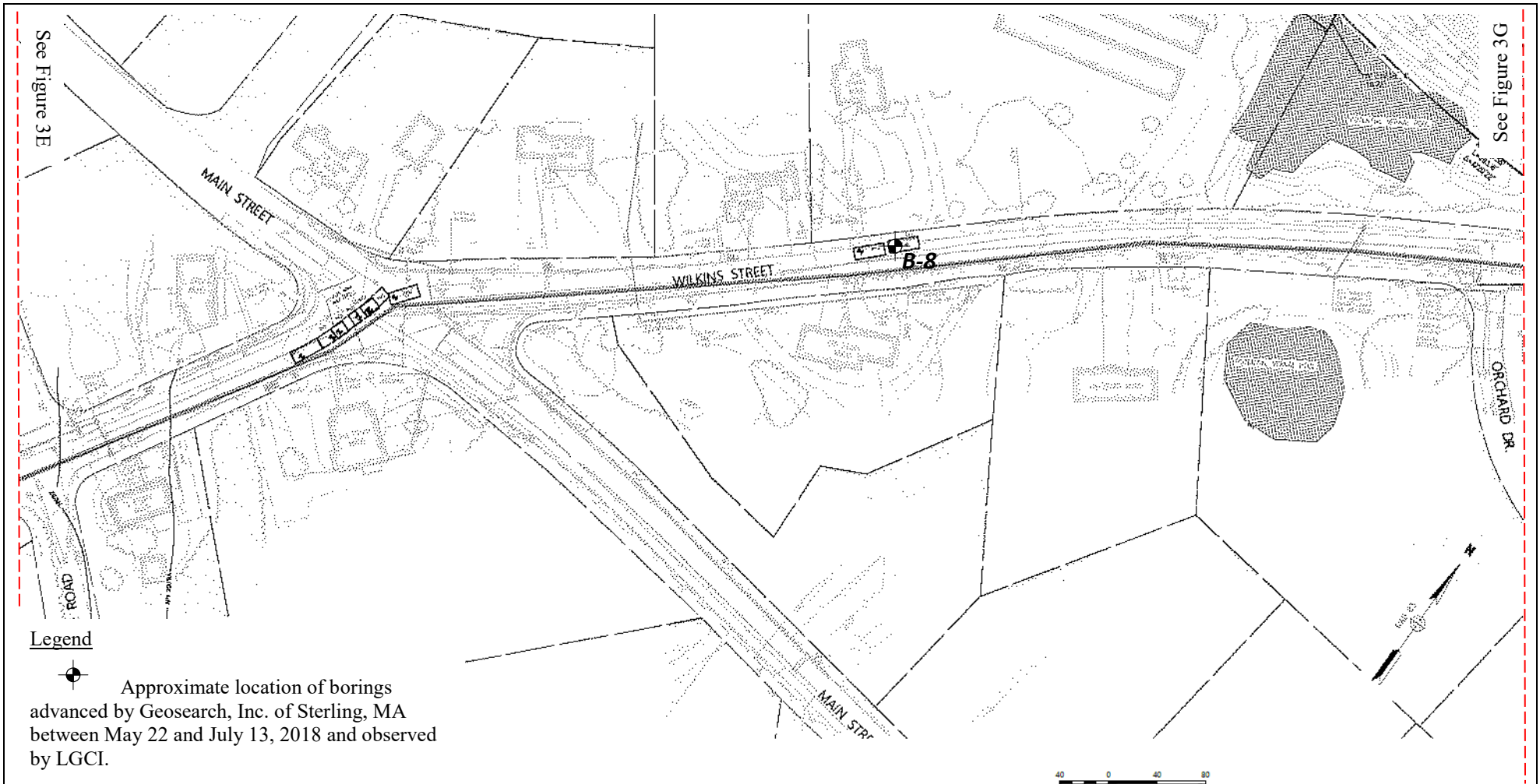

 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan




Note
 Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

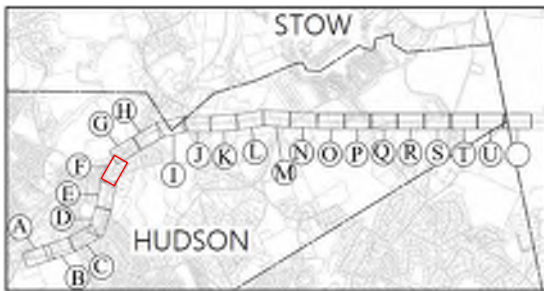
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3E – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

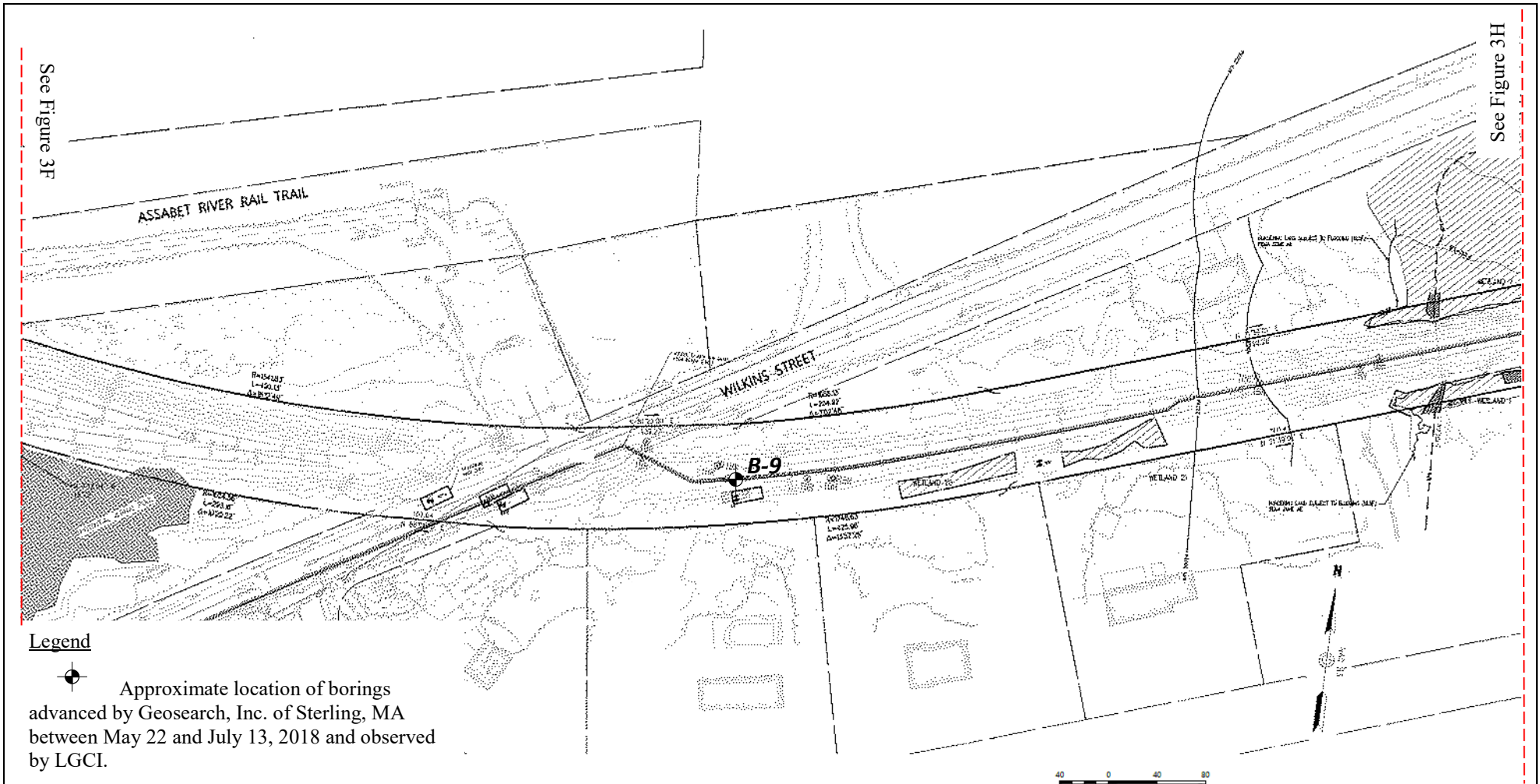
Key Plan




Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

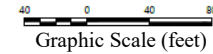
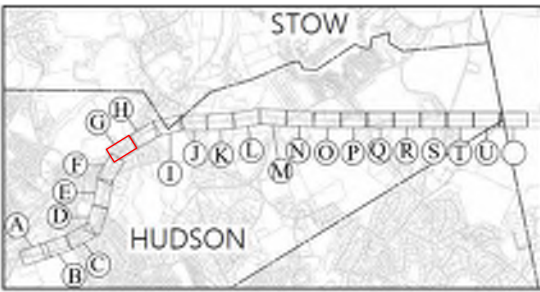
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3F – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3G – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



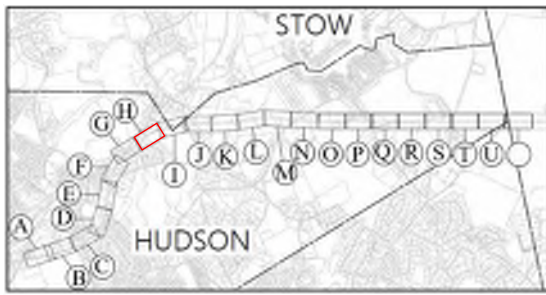
See Figure 3G

See Figure 3I

Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

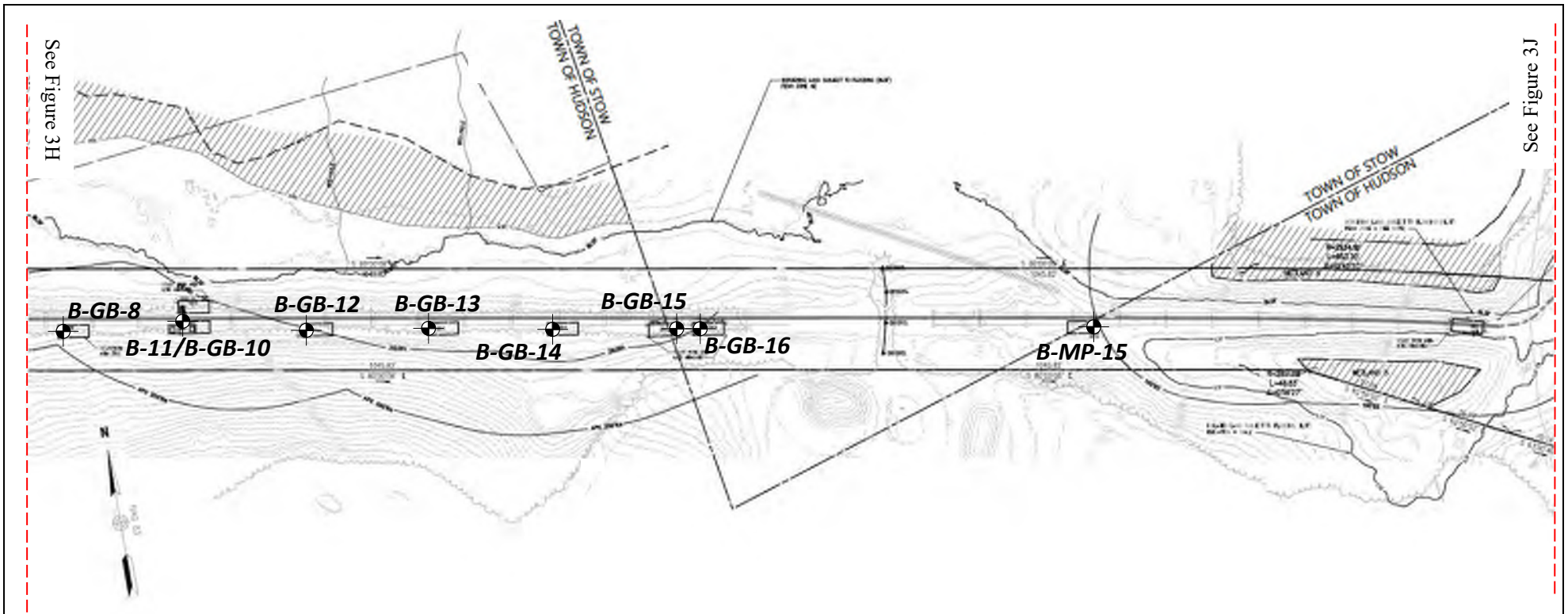
Key Plan




Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

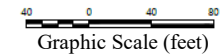
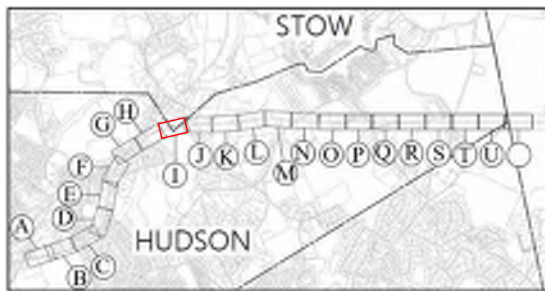
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3H – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed

Key Plan



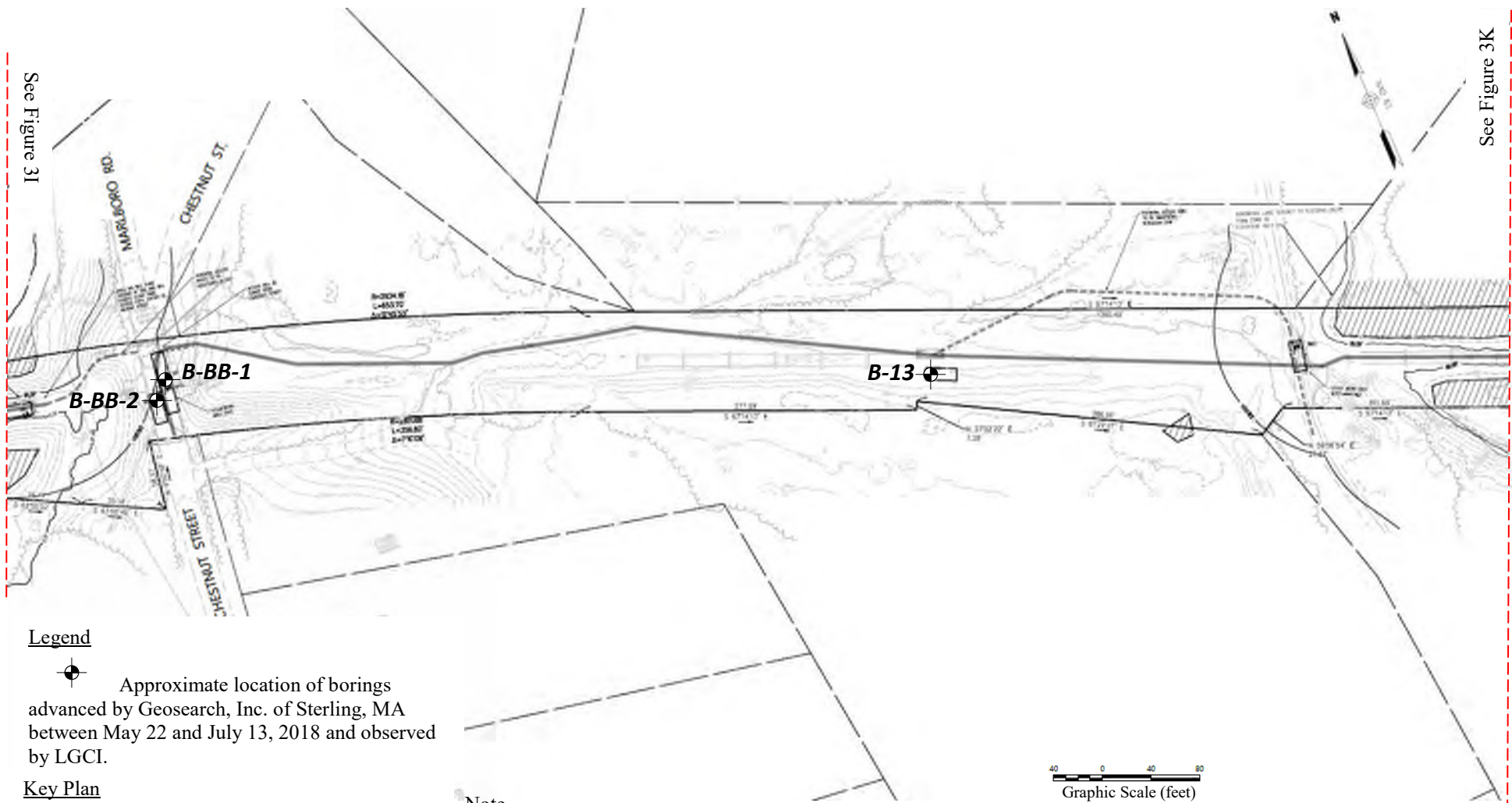
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3I – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3I

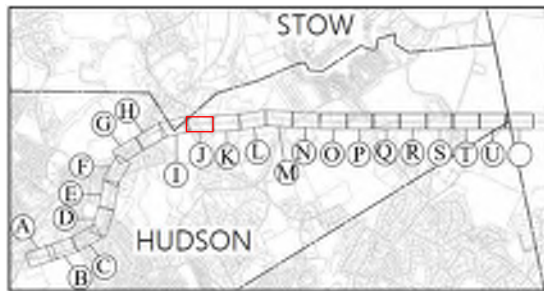
See Figure 3K



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



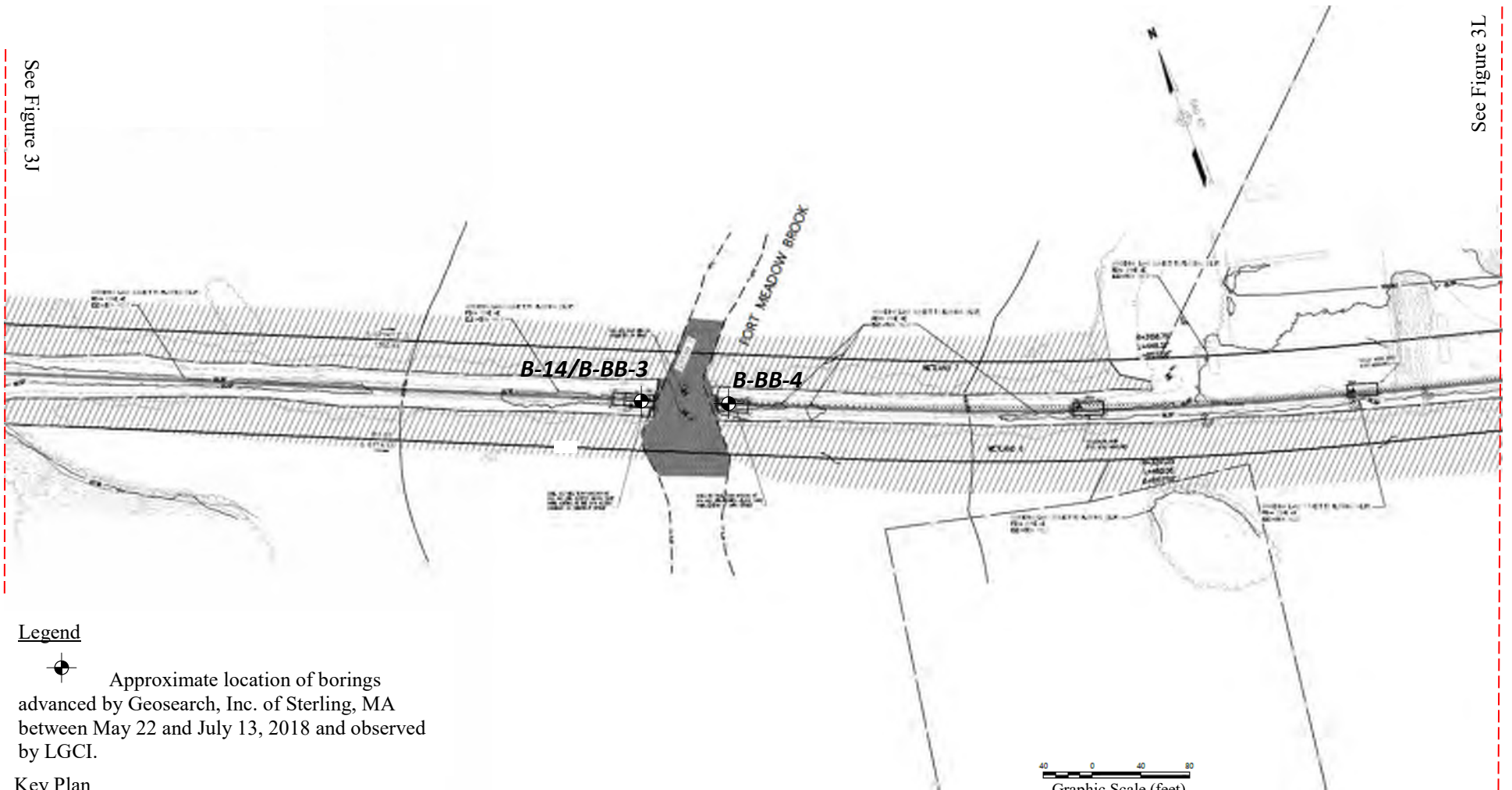
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3J – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3J

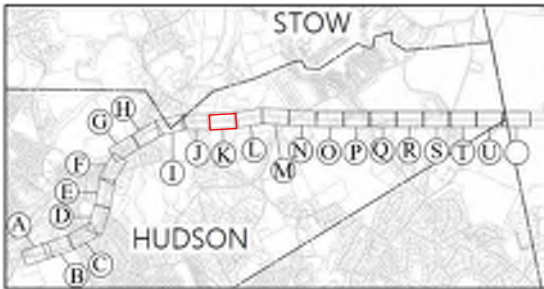
See Figure 3L



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

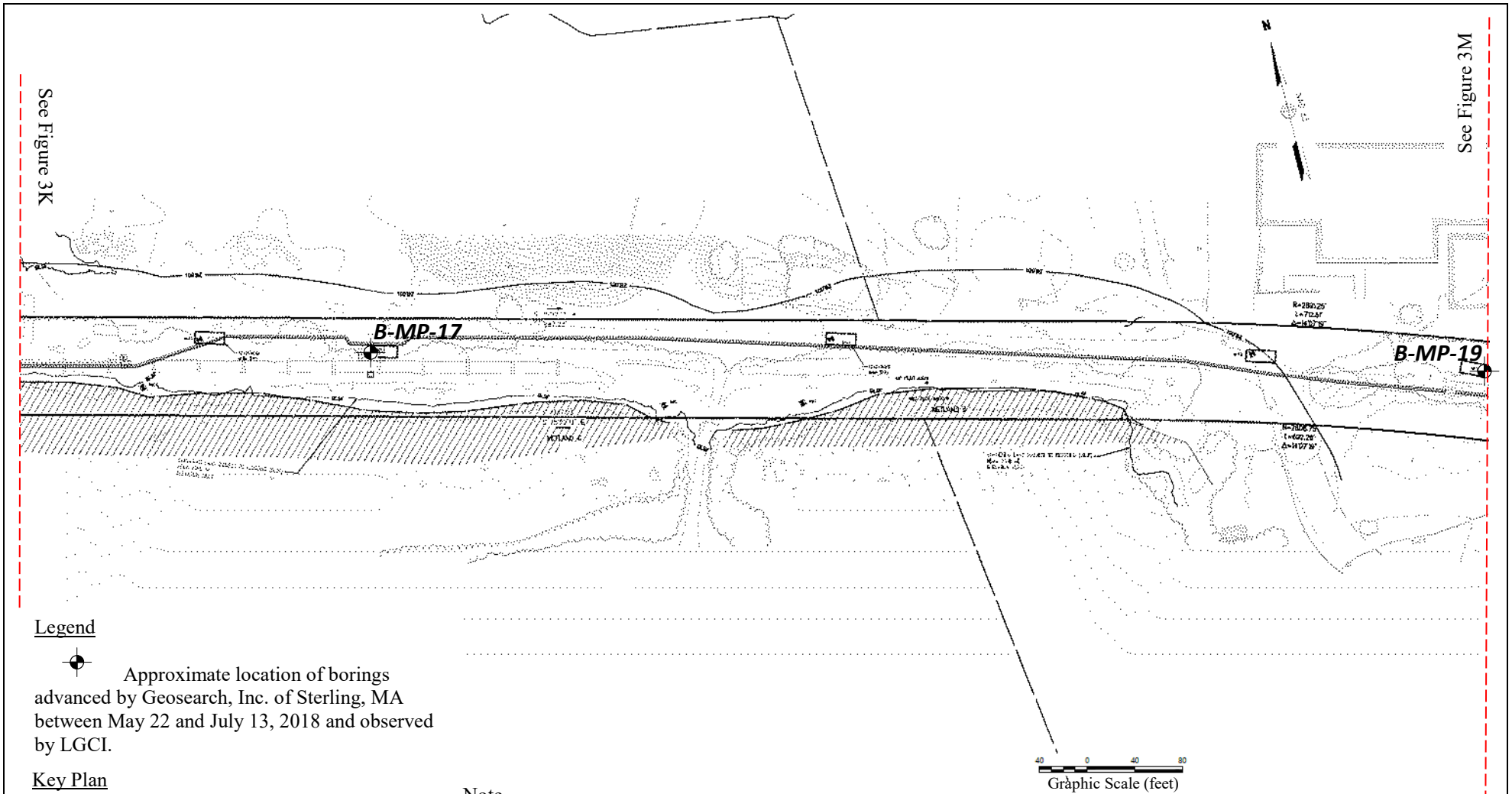
Key Plan




Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

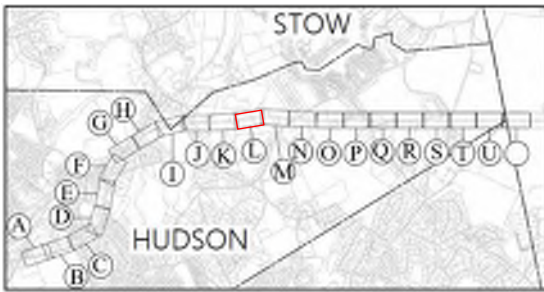
Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3K – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Hudson, MA		LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

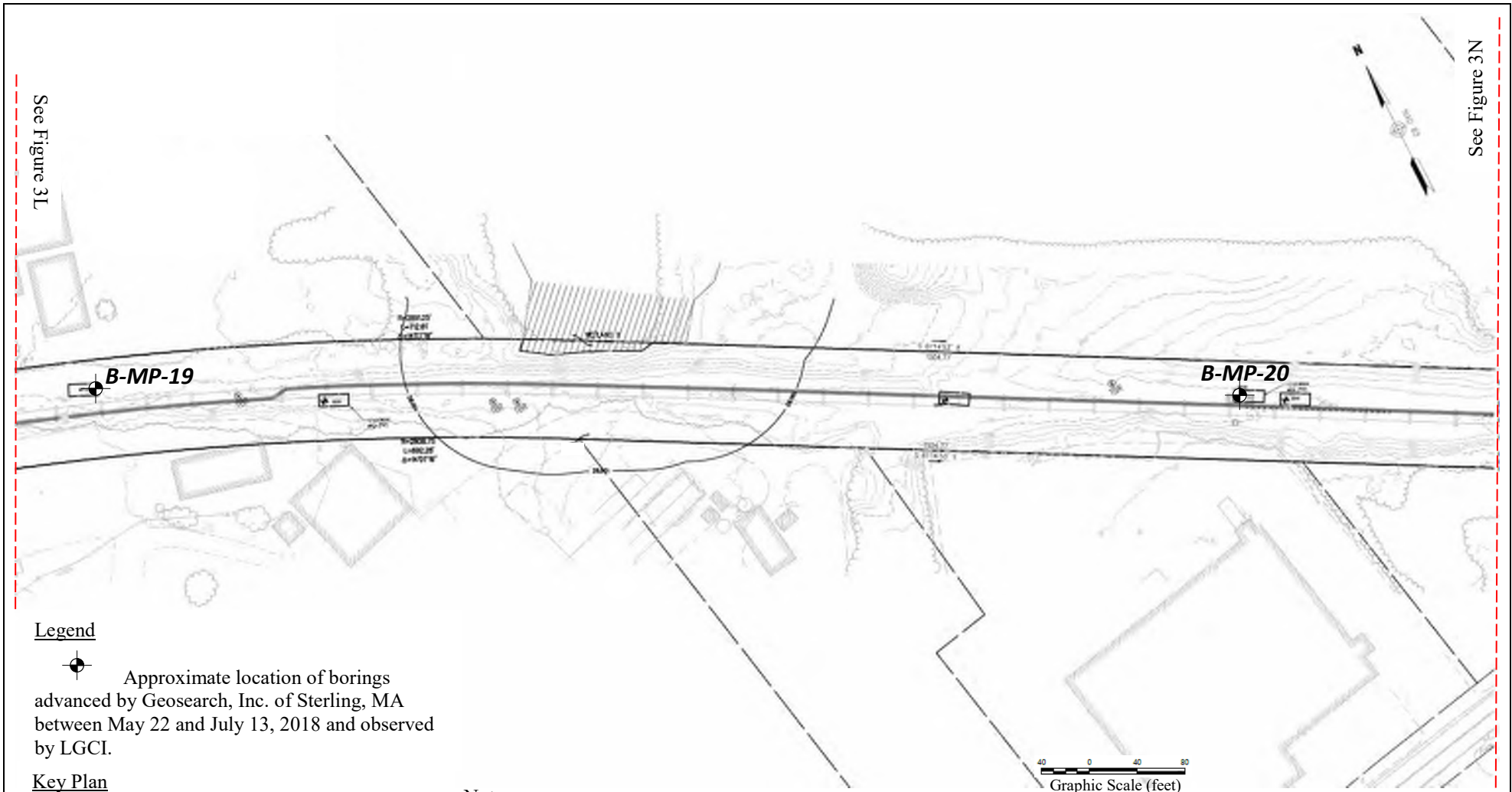
Key Plan




Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

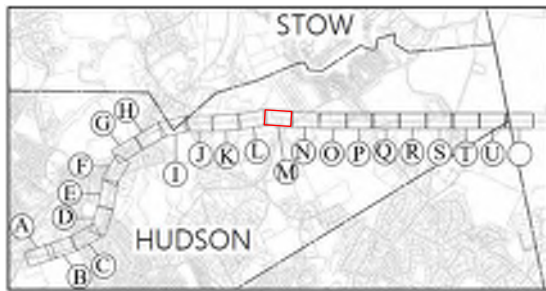
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3L – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3M – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



See Figure 3M

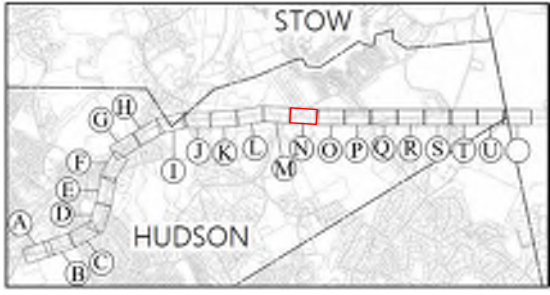
See Figure 3O

Legend




Approximate location of borings advanced by Geosarch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

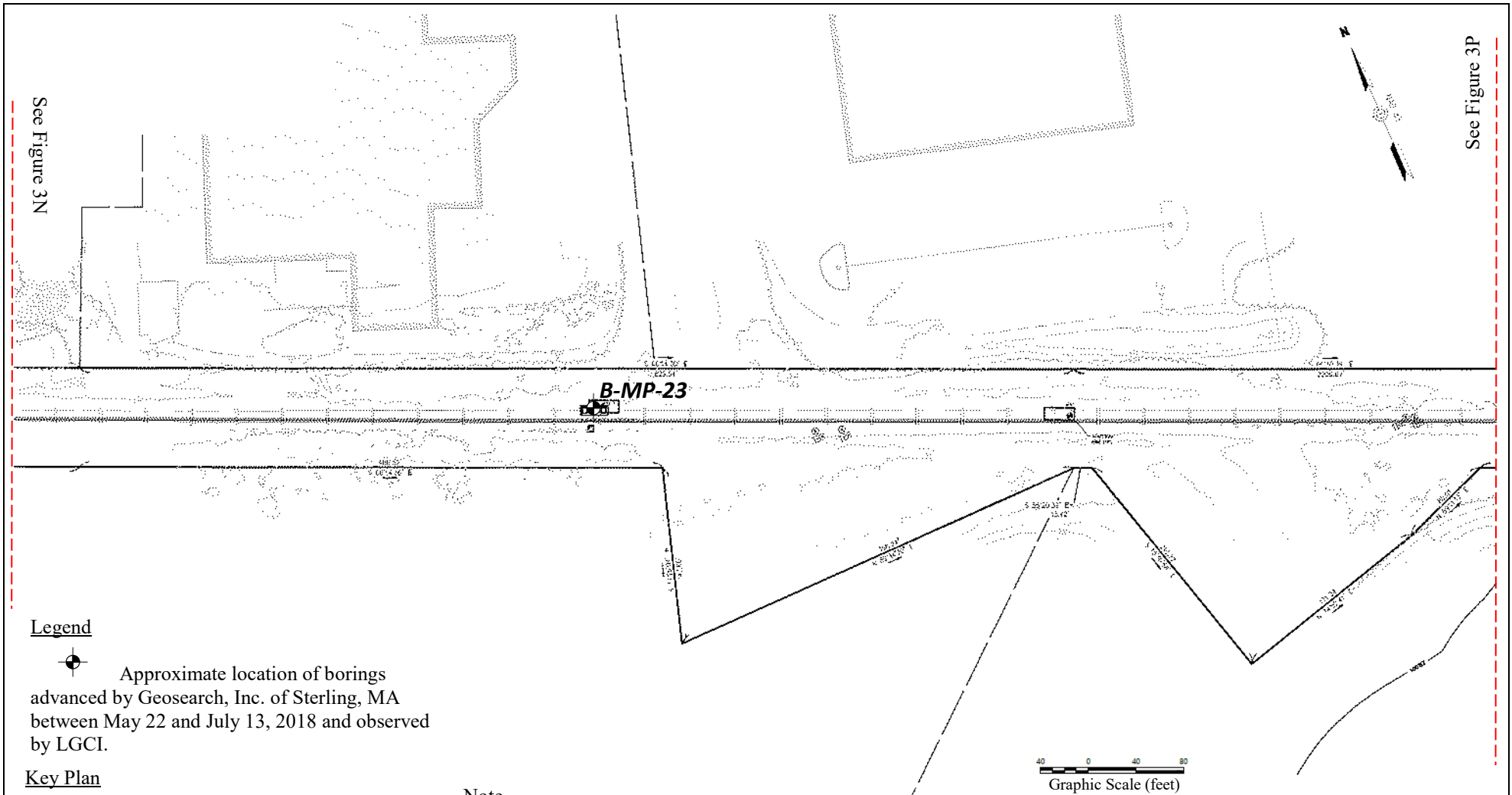
Key Plan



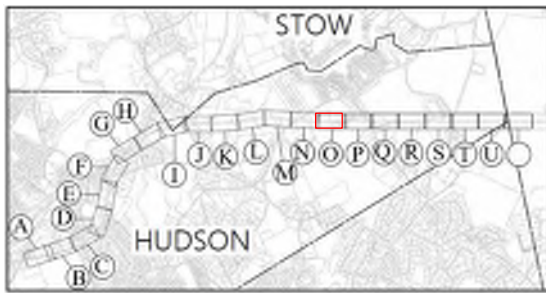
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

Client: Vanasse Hangen Brustlin, Inc.		Project: Proposed Transmission Power Line Borings		Figure 3N – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.		Project Location: Hudson, MA		LGCI Project No.: 1836	Date: August 2018




Key Plan



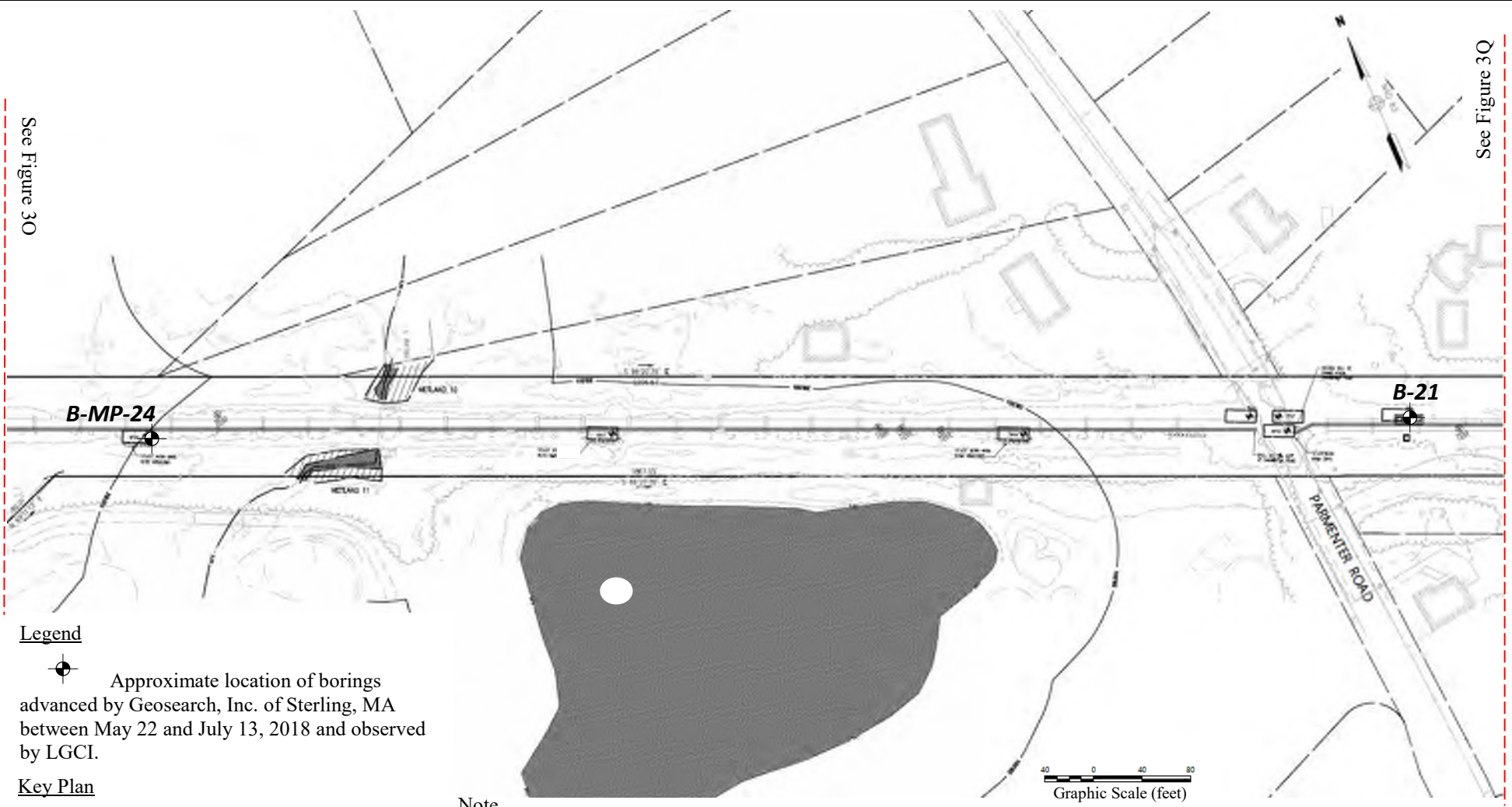
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3O – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3O

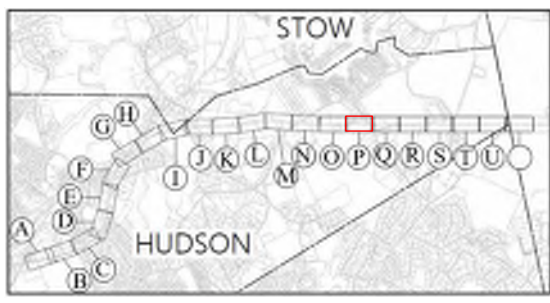
See Figure 3Q



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

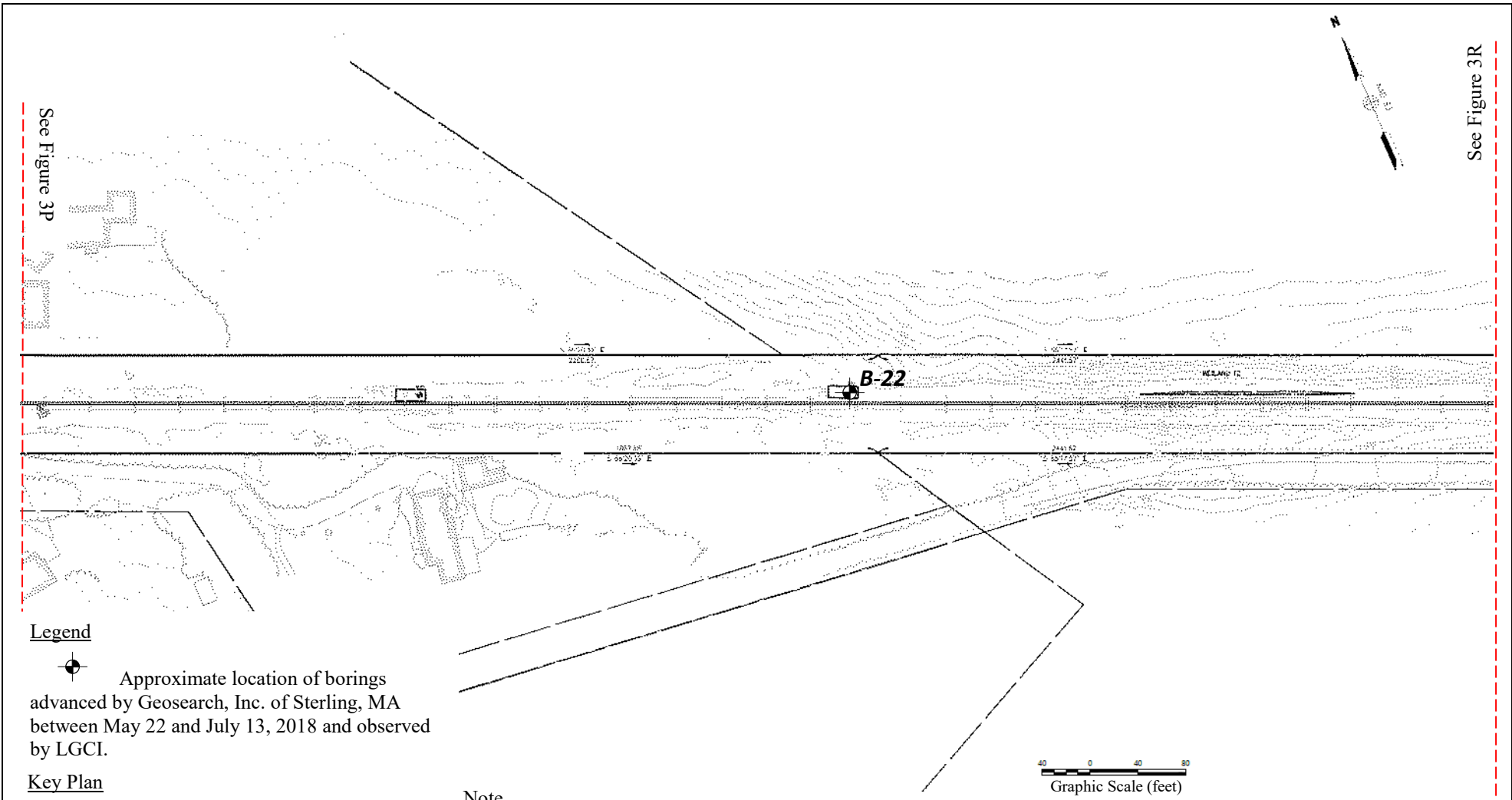
Key Plan



Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3P – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



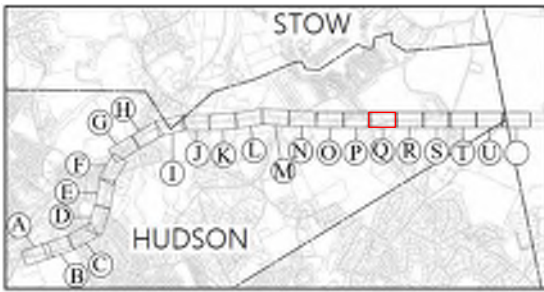
See Figure 3P

See Figure 3R

Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



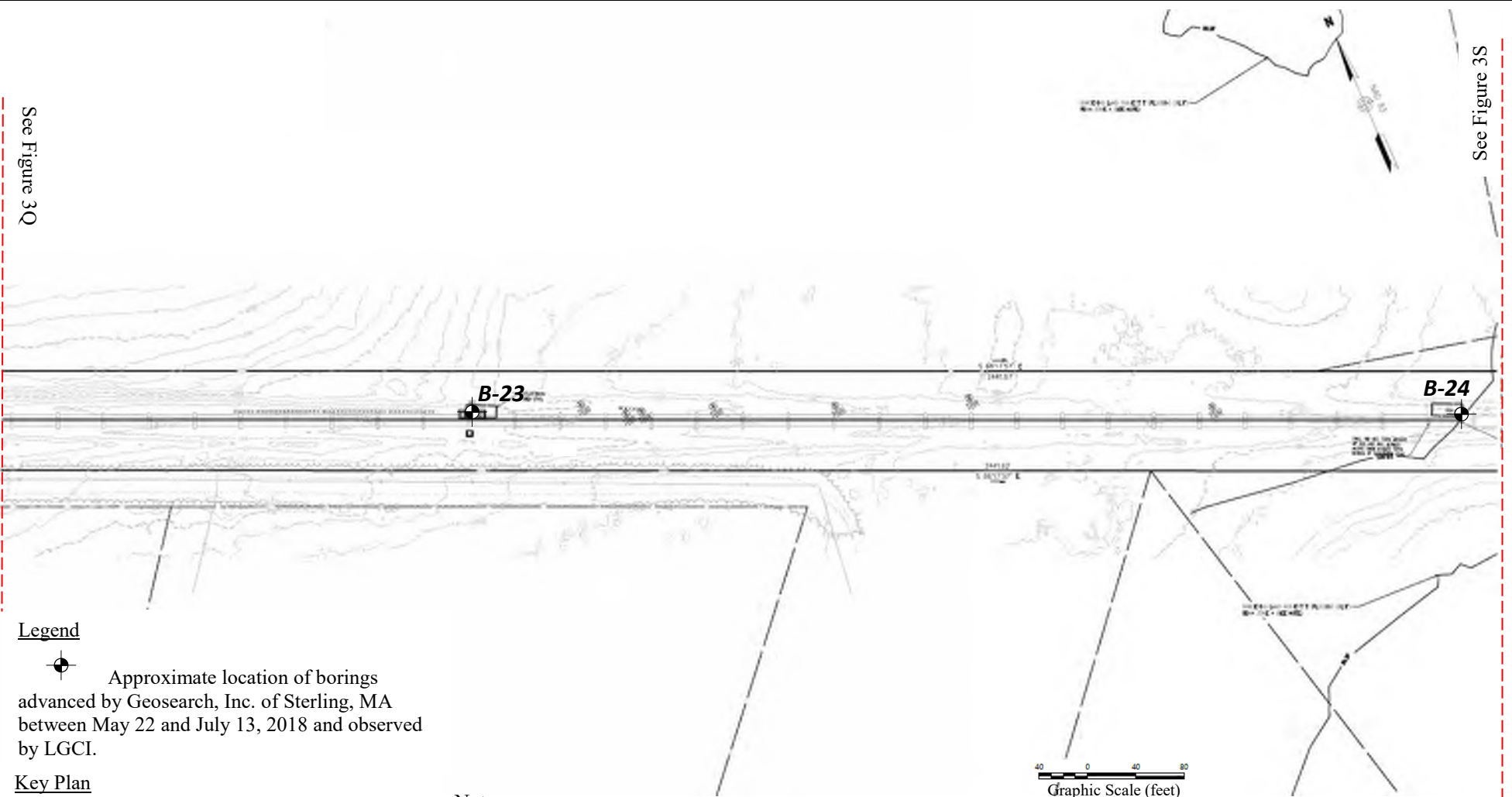
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3Q – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3Q

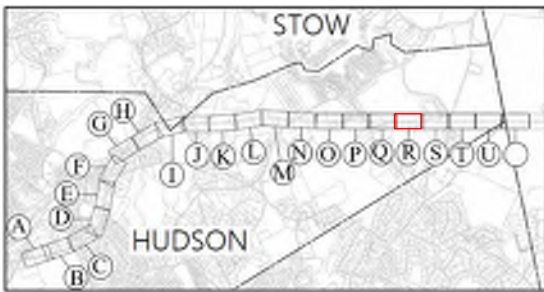
See Figure 3S



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

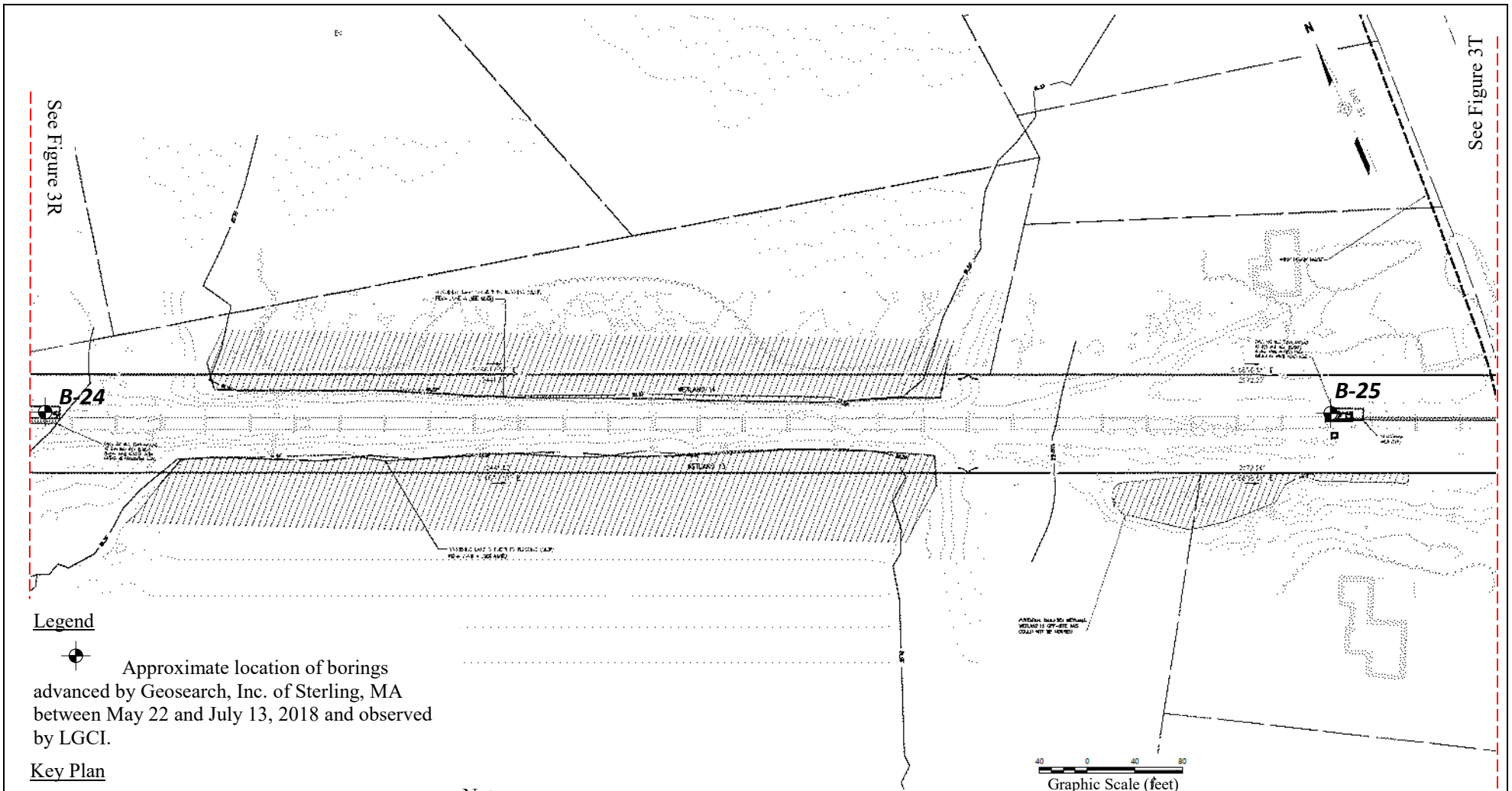
Key Plan




Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

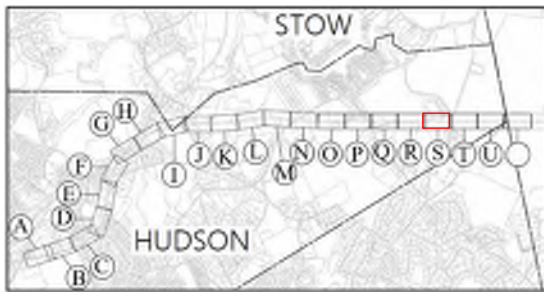
Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3R – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



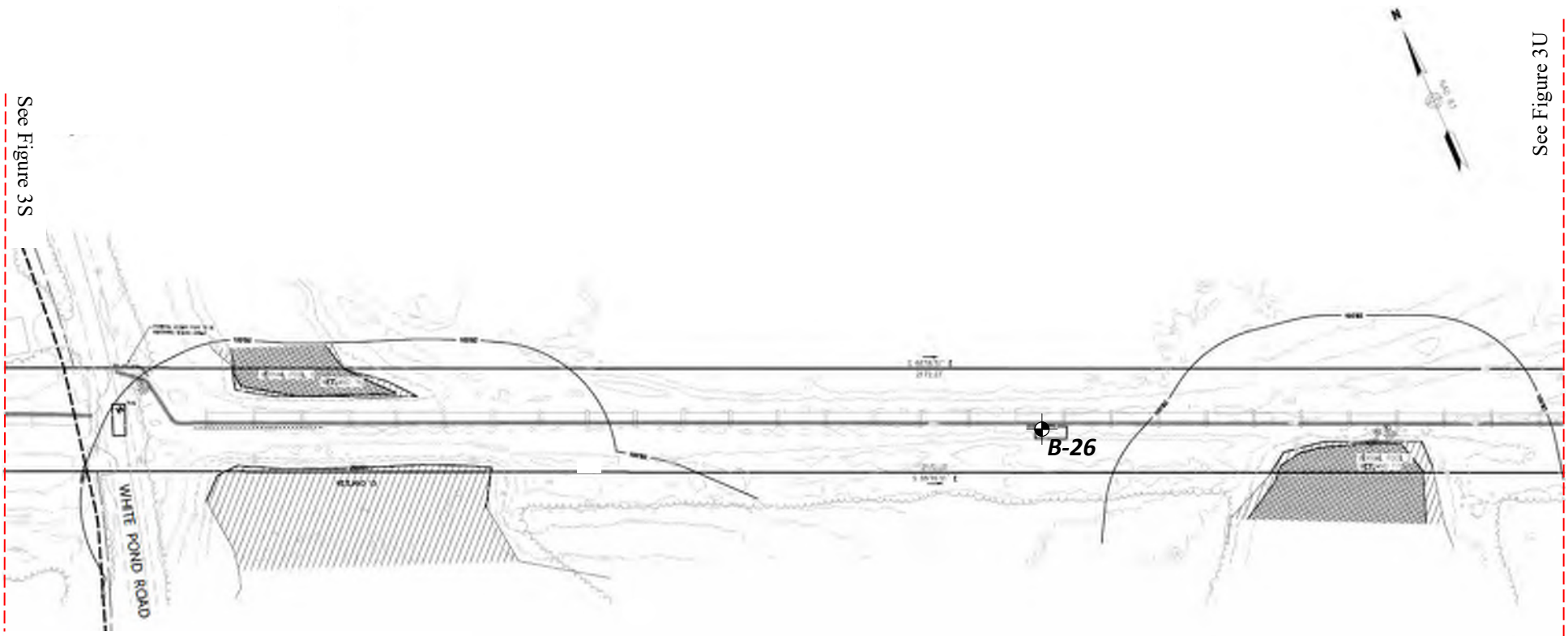
Note

Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.


Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3S – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

See Figure 3S

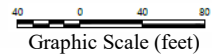
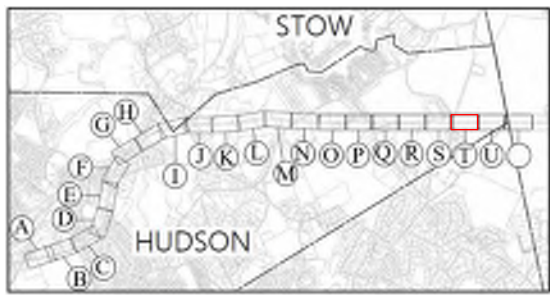
See Figure 3U



Legend



 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan

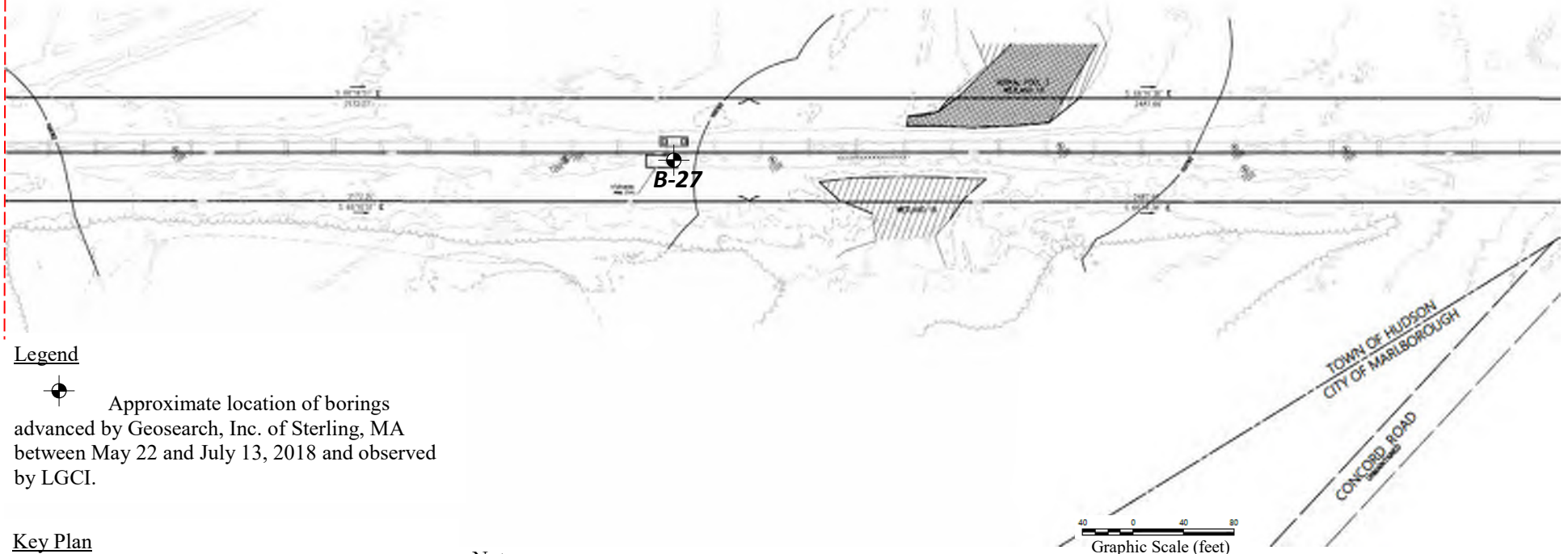


Note


Figure based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3T – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

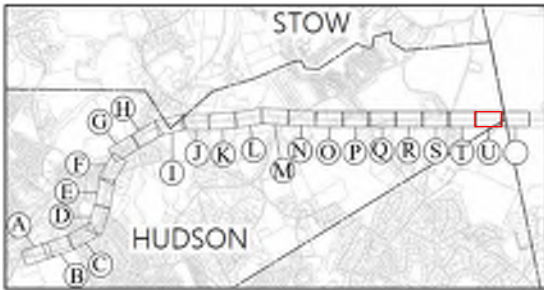
See Figure 3T



Legend


 Approximate location of borings advanced by Geosearch, Inc. of Sterling, MA between May 22 and July 13, 2018 and observed by LGCI.

Key Plan



Note

Figure based on a drawing titled: “Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts,” prepared by Vanasse Hangen Brustlin, Inc., and dated February 14, 2018.

Client: Vanasse Hangen Brustlin, Inc.	Project: Proposed Transmission Power Line Borings	Figure 3U – Boring Location Plan	
 LGCI Lahlaf Geotechnical Consulting, Inc.	Project Location: Hudson, MA	LGCI Project No.: 1836	Date: August 2018

Appendix A - LGCI's Boring Logs

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/11/18 **DATE COMPLETED:** 6/11/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near 6 Wilkins Street **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 218 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** Not encountered **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0.7					Asphalt	Drilled through 8 inches of asphalt.
	215.0		G1				Fill	G1 - Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, brown, moist
5		3.5	G2			G2 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, ~25% fine to coarse subrounded gravel, trace coal, brown, moist		
		6				1	Sand	REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/6/18.
	210.0		S1	2-4-5-3 (9)	24/7	S1 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, ~15% fine subrounded gravel, light brown, moist		
		8						S2 - Similar to S1, weathered rock fragments, light brown to tan
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
	205.0							
15								
	200.0							
20								
	195.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: <u>Vanasse Hangen Brustlin, Inc.</u>	PROJECT NAME: <u>Proposed Transmission Power Line Borings</u>
LGCI PROJECT NUMBER: <u>1836</u>	PROJECT LOCATION: <u>Hudson, Massachusetts</u>
DATE STARTED: <u>5/22/18</u> DATE COMPLETED: <u>5/22/18</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u>
BORING LOCATION: <u>Off Wilkins St., MBTA Right-of-way (ROW)</u>	DRILLING FOREMAN: <u>Kenny Bylund</u>
COORDINATES: <u>NA</u>	DRILLING METHOD: <u>Hollow Stem Augers 4-1/4" I.D.</u>
SURFACE EI.: <u>224 ft. NAVD 88 (see note 1)</u> TOTAL DEPTH: <u>16 ft.</u>	DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u>
WEATHER: <u>60s / Cloudy</u>	HAMMER TYPE: <u>Automatic</u>
GROUNDWATER LEVELS:	HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u>
▽ DURING DRILLING: <u>-</u>	SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
▽ AT END OF DRILLING: <u>13.0 ft. / El. 211.0 ft.</u>	CORE BARREL SIZE: <u>NA</u>
▽ OTHER: <u>-</u>	LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	S1 - Top 2": Silty SAND (SM), fine to coarse, 25-30% fines, trace fine subangular gravel, trace coal ash, trace slag, dark brown, moist (topsoil) Bot. 17": Coal ash/slag
		2	S1	4-4-5-6 (9)	24/19		Fill	S2 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 10-15% fine subrounded gravel, light brown to orange, moist
	220.0	4	S2	11-7-8-8 (15)	24/13			S3 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~15% fine subrounded gravel, brown, moist
5		6	S3	7-5-4-3 (9)	24/14			S4 - Silty SAND (SM), fine, ~20% fines, trace organic fines, trace wood, dark brown, moist
		6					Buried Topsoil	S5 - Top 10": Similar to S4, trace roots
	215.0	8	S4	2-3-5-5 (8)	24/4		Buried Subsoil	Bot. 5": Silty SAND (SM), fine, 20-25% fines, trace organic fines, trace roots, trace wood, brown to orange, moist
		10	S5	4-4-3-4 (7)	24/15			S6 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, ~35% fine to coarse subrounded gravel, light brown, moist
10		10					Sand	S7 - Silty SAND (SM), fine, 20-25% fines, light brown to gray, moist
		12	S6	6-14-18-19 (32)	24/13			S8 - Similar to S7, light brown
	210.0	14	S7	17-10-9-9 (19)	24/14			
15		16	S8	10-9-8-13 (17)	24/16			
		16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
	205.0							
20								
	200.0							
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 5/22/18 **DATE COMPLETED:** 5/22/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 214 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 14 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 9.3 ft. / El. 204.7 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 11.0 ft. / El. 203.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0							Topsoil	S1 - Top 1": Silty SAND (SM), fine to coarse, 25-30% fines, trace fine subangular gravel, trace coal ash, trace organic fines, dark brown, moist (topsoil)
2			S1	3-5-8-3 (13)	24/12		Fill	Bot. 11": Coal ash
4	210.0		S2	7-5-5-4 (10)	24/10			S2 - Silty SAND (SM), fine to medium, 15-20% fines, trace fine subrounded gravel, light brown, moist
5			S3	3-2-3-3 (5)	24/16			S3 - Similar to S2, trace roots
6			S4	6-4-7-4 (11)	24/15		Buried Topsoil	S4 - Silty SAND (SM), fine, 25-30% fines, trace organic fines, trace roots, trace fine subangular gravel, dark brown to brown, moist
8	205.0		S5	3-2-3-8 (5)	24/21		Sand	S5 - Top 15": Silty SAND (SM), fine, 25-30% fines, trace organic fines, trace roots, dark brown, moist
10			S6	24-11-11-13 (22)	24/3			Bot. 6": Silty SAND (SM), fine, 15-20% fines, light brown, wet
12			S7	14-20-21-26 (41)	24/14			S6 - Silty SAND with Gravel (SM), fine to medium, ~15% fines, 40-45% fine to coarse subrounded gravel, light brown, wet
14	200.0							S7 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 10-15% fines, 15-20% fine subrounded gravel, brown, wet
15								Bottom of borehole at 14.0 feet. Backfilled borehole with drill cuttings.
20	195.0							
25	190.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/26/18 **DATE COMPLETED:** 6/26/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 205 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 21.6 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 80s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 15.0 ft. / El. 190.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 16.5 ft. / El. 188.5 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0						S1 - Top 14": Coal
		2	S1	5-6-7-7 (13)	24/20		Fill	Bot. 6": Poorly Graded SAND (SP), fine, trace medium, 0-5% fines, light brown to tan, moist
		4	S2	6-5-5-22 (10)	24/12			S2 - Silty SAND (SM), fine, ~25% fines, ~5% fine subangular gravel, trace organic fines, trace roots, dark brown to orange, moist
5	200.0	6	S3	11-8-7-4 (15)	24/5			S3 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 5-10% fines, ~15% fine to coarse subangular gravel, trace wood, trace organic fines, trace roots, light brown to gray, moist
		6					Buried Subsoil	S4 - Silty SAND (SM), fine, trace coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, orange, moist
		8	S4	3-2-4-85 (6)	24/14	1		REMARK 1: Auger refusal at 8 feet. Offset borehole 5 feet west.
		10	S5	7-27-33-25 (60)	24/15		Sand	S5 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 5-10% fines, ~15% fine to coarse subangular gravel, light brown to gray, moist
		10	S6	25-33-100	18/11			S6 - Similar to S5, 25-30% fine to coarse subrounded gravel
		11.5						
		12	S7	7-20-11-7 (31)	24/15			S7 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, trace coarse, 5-10% fines, ~15% fine to coarse subrounded gravel, light brown to orange, moist
15	190.0	15	S8	4-5-4-8 (9)	24/17			▽ S8 - Similar to S7, light brown, wet
		17						▼
		20	S9	18-28-53-50/1" (81)	19/11			S9 - Silty SAND with Gravel (SM), fine to medium, trace coarse, 20-25% fines, ~35% fine to coarse subangular gravel, weathered rock fragments, gray to dark gray, wet
		21.6						Bottom of borehole at 21.6 feet. Backfilled borehole with drill cuttings.
25	180.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 7/13/18 **DATE COMPLETED:** 7/13/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Jean Prinsloo
COORDINATES: NA **DRILLING METHOD:** Drove split spoon sampler
SURFACE EI.: 187 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** Tripod with Honda GX200 Motor
WEATHER: 80s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 9.0 ft. / El. 178.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 12.0 ft. / El. 175.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description	
		0					Topsoil	0.4 186.6	
	185.0	2	S1	5-13-22-33 (35)	24/15		Fill	S1 - Top 5": Silty SAND (SM), fine, ~20% fines, trace organic fines, trace roots, dark brown, moist Bot. 10": Poorly Graded SAND with Gravel (SP), fine to medium, ~5% fines, ~15% fine subangular gravel, trace organic fines, light brown, moist	
		2.6	S2	23-50/1"	7/6			S2 - Poorly Graded SAND (SP), fine to medium, trace coarse, ~5% fines, angular stone fragments, light brown, moist	
5		5	S3	18-17-11-11 (28)	24/14			S3 - Well Graded SAND (SW), fine to coarse, ~5% fines, 5-10% fine subrounded gravel, light brown, moist	
	180.0	7	S4	43-27-19-14 (46)	24/12			S4 - Similar to S3	
10		9	S5	32-40-31-31 (71)	24/15			▽ S5 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, ~35% fine to coarse subangular gravel, brown, wet	
	175.0	11	S6	29-35-53-51 (88)	24/10			11.4 175.6	S6 - Top 5": Angular stone fragments, black, wet ▼ Bot. 5": Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, ~35% fine subrounded gravel, brown to red, wet
		13	S7	25-21-20-16 (41)	24/8			Sand	S7 - Silty SAND with Gravel (SM), fine to coarse, ~20% fines, ~30% fine subrounded gravel, brown to orange, wet
15		15						15.0	
	170.0								
20									
	165.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 5/23/18 **DATE COMPLETED:** 5/30/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Western edge of Fort Meadow Brook bridge **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** HSA 4-1/4" I.D. to 12 feet then 4-inch casing
SURFACE EI.: 180 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 101 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 80s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 6.0 ft. / El. 174.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Fill		S1 - Coal ash, trace fine subangular gravel, trace roots, trace brick
		2	S1	5-5-5-4 (10)	24/15				S2 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 5-10% fines, ~15% fine to coarse subangular gravel, brown, moist
		4	S2	10-8-17-12 (25)	24/11				S3 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 35-40% fine subangular gravel, trace organic fines, brown, moist
5	175.0		S3	7-10-7-8 (17)	24/20				▼ S4 - Similar to S3, ~20% fine subangular gravel, trace roots
		6	S4	6-2-2-1 (4)	24/1			8.0	
		8	S5	0-0-0-3 (0)	24/15		Buried Organics	172.0	S5 - Silty SAND (SM), fine, ~40% fines, gray, wet
10	170.0		S6	2-2-3-2 (5)	24/11				S6 - Silty SAND (SM), fine to coarse, ~25% fines, trace organic fines, trace roots, gray to brown, wet
		12	S7	0-0-1-1 (1)	24/21	1			REMARK 1: Switched to 4-inch casing at 12 feet. S7 - PEAT (PT), fibrous, trace roots, black, wet
		14	S8	0-0-3-3 (3)	24/17				S8 - Silty SAND (SM), fine to medium, 25-30% fines, trace peat fibers, trace roots, black, wet
15	165.0		S9	3-2-3-3 (5)	24/12				S9 - Poorly Graded SAND with Silt (SP-SM), fine to medium, ~10% fines, ~5% fine subrounded gravel, trace wood, dark brown, wet
		18	S10	3-4-3-4 (7)	24/11				S10 - Similar to S9, no wood
20	160.0		S11	2-1-4-4 (5)	24/15				20.0 160.0
		22	S12	3-5-5-5 (10)	24/20		Sand		S12 - Similar to S11, 10-15% fine subrounded gravel
		24		7-7-5-6					S13 - Similar to S12, angular stone fragments
25	155.0								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		24	S13	(12)	24/8			
		26						
30	150.0	29	S14	7-6-6-6 (12)	24/3	2		REMARK 2: Switched to 3-inch casing at 29 feet. S14 - Well Graded Gravel with Silt and Sand (GW-GM), fine to coarse, subrounded, 10-15% fines, 35-40% fine to coarse sand, gray, wet
		31						
35	145.0	34	S15	7-8-5-4 (13)	24/10			S15 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, ~15% fine to coarse subrounded gravel, gray, wet
		36						
40	140.0	39	S16	12-6-11-16 (17)	24/18			S16 - Well Graded SAND (SW), fine to coarse, 0-5% fines, gray, wet
		41						
		44	S17	3-3-5-5 (8)	24/10		Sand	S17 - Similar to S16
45	135.0	46						
		49	S18	6-10-8-8 (18)	24/6			S18 - Poorly Graded SAND (SP), fine to medium, trace coarse, 0-5% fines, gray, wet
50	130.0	51						
		54	S19	6-3-7-10 (10)	24/17			S19 - Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, gray, wet
55	125.0	56						
		59	S20	8-2-6-7 (8)	24/10			S20 - Similar to S19, 10-15% fines
60	120.0							

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		59-61						160.0	
65	115.0		S21	2-4-7-11 (11)	24/16		Sand		S21 - Similar to S20
70	110.0					3			REMARK 3: Issues with bottom blow in encountered; sample at 69 to 71 feet could not be taken.
75	105.0		S22	8-7-12-24 (19)	24/15				S22 - Similar to S20
80	100.0		S23	3-14-15-23 (29)	24/10				S23 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, trace coarse, ~10% fines, ~30% fine to coarse subangular gravel, gray, wet
85	95.0		S24	8-8-13-14 (21)	24/12				S24 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, ~30% fine to coarse subangular gravel, gray, wet
90	90.0		S25	25-32-13-15 (45)	24/9				S25 - Well Graded SAND and Gravel (SW), fine to coarse, ~5% fines, 20-25% fine to coarse subrounded gravel, gray, wet
95	85.0		S26	32-48-21-15 (69)	24/4				S26 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 10-15% fines, 20-25% fine to coarse subrounded gravel, gray, wet

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		96						
		99						
100	80.0		S27	22-57-59-56 (116)	24/6		Sand	S27 - Silty SAND with Gravel (SM), fine to coarse, ~20 fines, 25-30% fine to coarse subangular gravel, gray, wet
		101						Bottom of borehole at 101.0 feet. Backfilled borehole with drill cuttings.
105	75.0							
110	70.0							
115	65.0							
120	60.0							
125	55.0							
130	50.0							

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/6/18 **DATE COMPLETED:** 6/6/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off Parmenter Road, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 211 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 8.0 ft. / El. 203.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 9.5 ft. / El. 201.5 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	210.0	0	S1	2-3-3-3 (6)	24/19		Topsoil	S1 - Top 6": Silty SAND (SM), fine, 25-30% fines, trace fine subangular gravel, trace organic fines, trace leaves, dark brown, moist
		2	S2	4-1-1-3 (2)	24/15		Fill	Bot. 13": Poorly Graded SAND (SP), fine, trace medium to coarse, ~5% fines, trace organic fines, tan to orange, moist
		4	S3	2-3-5-6 (8)	24/17		Buried Subsoil	S2 - Top 8": Silty SAND (SM), fine, 15-20% fines, trace organic fines, trace roots, orange, moist
5		6	S4	7-10-9-12 (19)	24/16		Sand	Bot. 7": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, tan, moist
	205.0	8	S5	5-8-7-6 (15)	24/20			S3 - Similar to Bot. 7" of S2, tan to gray
		10	S6	3-7-7-8 (14)	24/22			S4 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, tan, moist
		12	S7	1-5-5-10 (10)	24/19			▽ S5 - Well Graded SAND (SW), fine to coarse, ~5% fines, brown to gray, wet
		14	S8	15-22-17-15 (39)	24/20			▼ S6 - Similar to S5
15		16						S7 - Similar to S5
	195.0							S8 - Top 17": Similar to S5
								Bot. 3": Silty SAND (SM), fine, ~25% fines, brown, wet
								Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
20								
	190.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/6/18 **DATE COMPLETED:** 6/6/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off Parmenter Road, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 215 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 7.7 ft. / El. 207.3 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	Depth El. (ft.) 0.6 S1 - Top 7": Silty SAND (SM), fine, trace coarse, ~30% fines, trace fine subrounded gravel, trace organic fines, trace roots, dark brown, moist
			S1	2-2-2-5 (4)	24/22		Subsoil	1.4 213.6 Mid. 9": Silty SAND (SM), fine, ~20% fines, trace organic fines, trace roots, orange, moist
		2						Bot. 6": Poorly Graded SAND (SP), fine, ~5% fines, light brown, moist
			S2	7-7-8-10 (15)	24/17			S2 - Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, light brown, moist
		4						S3 - Similar to S2
5	210.0		S3	6-7-7-8 (14)	24/17		Sand	
		6						S4 - Silty SAND (SM), fine, trace medium, ~15% fines, tan, moist (Bot. 4" wet)
			S4	5-7-7-7 (14)	24/24			▽
		8						S5 - Similar to S4, wet
10	205.0		S5	5-8-9-20 (17)	24/22			
		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15	200.0							
20	195.0							
25	190.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/6/18 **DATE COMPLETED:** 6/6/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off Parmenter Road, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 211 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 201.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 11.0 ft. / El. 200.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	210.0	0	S1	5-8-8-7 (16)	24/15		Topsoil	S1 - Top 6": Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subrounded gravel, trace organic fines, dark brown, moist
		2	S2	16-18-16-9 (34)	24/16		Fill	Bot. 9": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, 10-15% fine subangular gravel, trace organic fines, brown, moist
		4	S3	6-7-6-4 (13)	24/10	1	Sand & Gravel	S2 - Silty SAND with Gravel (SM), fine, trace medium, 15-20% fines, ~15% fine angular gravel, light brown, moist REMARK 1: Auger chattered at 3 feet.
5			S4	4-10-16-24 (26)	24/13	S3 - Similar to S2		
	205.0	6	S5	6-10-43-30 (53)	24/18	S4 - Similar to S2, trace roots		
		8	S6	14-22-30-31 (52)	24/15	S5 - Silty SAND with Gravel (SM), fine, ~20% fines, ~15% fine angular gravel, light brown, moist		
10		10	S7	7-20-23-23 (43)	24/16	▽ S6 - Similar to S5, wet ▼		
	200.0	12	S8	17-25-26-22 (51)	24/23	S7 - Similar to S6		
		14				S8 - Similar to S6, ~15% fines, light brown to gray		
15		16				Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.		
	195.0							
20								
	190.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/28/18 **DATE COMPLETED:** 6/28/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** HSA 4-1/4" I.D. to 10 feet then 4-inch casing
SURFACE EI.: 200 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 14 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Rain **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 12.0 ft. / El. 188.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 12.0 ft. / El. 188.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	0.5 199.5
		2	S1	2-11-8-4 (19)	24/17		Fill	S1 - Top 6": Silty SAND (SM), fine to medium, 15-20% fines, ~10% fine subrounded gravel, trace organic fines, trace roots, dark brown, moist Bot. 11": Poorly Graded SAND with Silt (SP-SM), fine, 10-15% fines, 5-10% fine to coarse subangular gravel, trace roots, light brown, moist S2 - Similar to Bot. 11" of S1
		4	S2	3-3-5-12 (8)	24/11			
5	195.0		S3	5-5-2-3 (7)	24/4		Buried Organics	4.0 196.0
		6	S4	3-2-4-4 (6)	24/16		Sand	6.0 194.0
		8	S5	3-3-5-7 (8)	24/18			S4 - Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, 5-10% fines, trace fine gravel, light brown, moist S5 - Similar to S4
10	190.0	10	S6	5-7-8-9 (15)	24/16	1		REMARK 1: Switched to 4-inch casing at 10 feet. S6 - Similar to S4, light brown to orange
		12	S7	7-7-7-7 (14)	24/17			▼ S7 - Poorly Graded SAND (SP), fine to medium, trace coarse, 0-5% fines, brown to orange, wet
		14						
15	185.0							Bottom of borehole at 14.0 feet. Backfilled borehole with drill cuttings.
20	180.0							
25	175.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 7/2/18 **DATE COMPLETED:** 7/2/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW off White Pond Road **DRILLING FOREMAN:** Jean Prinsloo
COORDINATES: NA **DRILLING METHOD:** Drove split spoon sampler
SURFACE EI.: 192 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** Tripod with Honda GX200 Motor
WEATHER: 90s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 4.0 ft. / El. 188.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 7.0 ft. / El. 185.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description	
		0								
	190.0	2	S1	5-6-6-7 (12)	24/21		Fill		S1 - Top 13": Silty SAND (SM), fine, trace medium to coarse, 15-20% fines, trace organic fines, trace roots, trace coal, dark brown, moist Bot. 8": Well Graded SAND (SW), fine to coarse, 0-5% fines, trace fine subangular gravel, light brown to orange, moist S2 - Similar to Bot. 8" of S1, trace roots	
			S2	7-17-18-14 (35)	24/9					
		4						4.0 ▽		
5			S3	19-11-10-19 (21)	24/11		Sand	188.0	S3 - Well Graded SAND (SW), fine to coarse, 0-5% fines, 0-5% fine subrounded gravel, trace organic fines, orange, wet S4 - Similar to S3, 10-15% fine to coarse subrounded gravel ▼ REMARK 1: Split spoon refusal at 6.9 feet. Offset borehole 3 feet west.	
	185.0	6.9	S4	54-120/5"	11/11	1				S5 - Silty SAND with Gravel (SM), fine, 20-25% fines, ~25% fine subrounded gravel, weathered rock fragments, gray to orange, wet S6 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~30% fine subrounded gravel, weathered rock fragments, gray to orange, wet S7 - Poorly Graded SAND with Gravel (SP), fine, ~5% fines, ~15% fine to coarse subrounded gravel, weathered rock fragments, gray, wet S8 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, ~15% fine to coarse subrounded gravel, weathered rock fragments, gray, wet
		8	S5	34-55-60-20 (115)	24/15					
10		10	S6	22-16-17-25 (33)	24/13					
	180.0	12	S7	14-25-39-75 (64)	24/14					
		14	S8	29-42-51-65 (93)	24/14					
15		16						16.0	Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings, one bag of concrete and one bag sand.	
	175.0									
20										
	170.0									
25										

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 7/3/18 **DATE COMPLETED:** 7/3/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW off White Pond Road **DRILLING FOREMAN:** Jean Prinsloo
COORDINATES: NA **DRILLING METHOD:** Drove split spoon sampler
SURFACE EI.: 191 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** Tripod with Honda GX200 Motor
WEATHER: 90s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 4.0 ft. / El. 187.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	190.0	0	S1	4-5-6-14 (11)	24/18		Fill	0.6 190.4 S1 - Top 7": Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, ~10% fines, trace fine subrounded gravel, trace organic fines, trace roots, trace coal, black, moist Bot. 11": Poorly Graded SAND (SP), fine, 0-5% fines, light brown, moist S2 - Poorly Graded SAND (SP), fine to medium, 0-5% fines, light brown to tan, moist ▽ S3 - Poorly Graded SAND (SP), fine to medium, trace coarse, 0-5% fines, light brown to gray, wet S4 - Poorly Graded SAND (SP), fine, trace medium to coarse, 0-5% fines, trace fine subrounded gravel, light brown to gray, wet S5 - Poorly Graded SAND (SP), fine, 0-5% fines, light brown to gray, wet
		2	S2	12-12-13-13 (25)	24/17		Sand	
		4	S3	4-4-9-8 (13)	24/18			
5		6	S4	11-12-8-9 (20)	24/15			
	185.0	8	S5	10-7-8-7 (15)	24/15			
10		10						10.0
	180.0							Bottom of borehole at 10.0 feet. Backfilled borehole with soil from surrounding area.
15								
	175.0							
20								
	170.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 7/3/18 **DATE COMPLETED:** 7/3/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW off White Pond Road **DRILLING FOREMAN:** Jean Prinsloo
COORDINATES: NA **DRILLING METHOD:** Drove split spoon sampler
SURFACE EI.: 192 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** Tripod with Honda GX200 Motor
WEATHER: 90s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 4.0 ft. / El. 188.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 4.0 ft. / El. 188.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Fill	Depth El. (ft.) 0.9 191.1 4.0 188.0 15.0
	190.0	1.5	S1	6-5-3-4/0" (8)	18/2			S1 - Top 4": Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, ~10% fines, trace fine subrounded gravel, trace organic fines, trace roots, trace coal, black, moist
		2					Buried Subsoil	Mid. 7": Poorly Graded SAND (SP), fine to medium, 0-5% fines, 5-10% fine subrounded gravel, trace roots, light brown, moist
		4	S2	2-2-2-4 (4)	24/16			Bot. 7": Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, ~10% fines, trace fine subrounded gravel, trace organic fines, trace roots, brown to orange, moist
5			S3	8-10-12-12 (22)	24/17			S2 - Silty SAND (SM), fine, trace medium to coarse, 15-20% fines, trace organic fines, orange, moist
	185.0	6	S4	16-22-34-21 (56)	24/16			S3 - Poorly Graded SAND (SP), fine to medium, 0-5% fines, 5-10% fine subrounded gravel, light brown, wet
		8						S4 - Similar to S3, light brown to gray
10		9	S5	6-11-16-17 (27)	24/13		Sand	S5 - Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, brown, wet
	180.0	11	S6	14-15-15-16 (30)	24/18			S6 - Poorly Graded SAND (SP), fine to medium, 0-5% fines, light brown, wet
		13	S7	12-14-12-15 (26)	24/17			S7 - Similar to S6
15		15						Bottom of borehole at 15.0 feet. Backfilled borehole with soil from surrounding area.
	175.0							
20								
	170.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 5/22/18 **DATE COMPLETED:** 5/22/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Western edge of retaining wall, west of Chestnut St. **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 208 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 11.7 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 60s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 8.0 ft. / El. 200.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▽ **AT END OF DRILLING:** 11.0 ft. / El. 197.0 ft. **CORE BARREL SIZE:** NA
 ▽ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0							S1 - Top 14": Coal ash
		2	S1	4-6-7-9 (13)	24/22		Fill		Bot. 8": Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, ~10% fines, 5-10% fine subangular gravel, light brown to orange, moist
	205.0		S2	9-7-13-34 (20)	24/13			2.3 205.7	S2 - Top 4": Similar to Bot. 8" of S1
		4					Buried Topsoil		Bot. 9": Silty SAND (SM), fine, trace coarse, 20-25% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, moist
5			S3	18-33-17-13 (50)	24/13	1			S3 - Silty SAND with Gravel (SM), fine, 20-25% fines, 15-20% fine to coarse subangular gravel, trace organic fines, trace roots, dark brown to orange, moist REMARK 1: Drill chattered from 5 feet to 7 feet.
		6						6.0 202.0	S4 - Silty SAND (SM), fine, 20-25% fines, trace roots, angular stone fragments, light brown, moist
	200.0		S4	7-20-11-4 (31)	24/16				▽ S5 - Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, light brown, wet
		8					Sand		
10			S5	3-7-3-5 (10)	24/18				
		10							S6 - Similar to S5, weathered stone fragments
		11.7	S6	5-4-15-120/2" (19)	20/9	2		11.7	REMARK 2: Auger refusal at 11.7 feet. Bottom of borehole at 11.7 feet. Backfilled borehole with drill cuttings.
	195.0								
15									
	190.0								
20									
	185.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: <u>6/14/18</u> DATE COMPLETED: <u>6/14/18</u> BORING LOCATION: <u>MBTA ROW, about 5 feet west of boring B-GB-7</u> COORDINATES: <u>NA</u> SURFACE EI.: <u>208 ft. NAVD 88 (see note 1)</u> TOTAL DEPTH: <u>32 ft.</u> WEATHER: <u>70s / Sunny</u> GROUNDWATER LEVELS: ▽ DURING DRILLING: <u>10.0 ft. / El. 198.0 ft. (Based on sample moisture)</u> ▼ AT END OF DRILLING: <u>12.5 ft. / El. 195.5 ft.</u> ▼ OTHER: <u>-</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u> DRILLING FOREMAN: <u>Kenny Bylund</u> DRILLING METHOD: <u>Hollow Stem Augers 4-1/4" I.D.</u> DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u> HAMMER TYPE: <u>Automatic</u> HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u> SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u> CORE BARREL SIZE: <u>NA</u> LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>
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Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
									Drilled without sampling to 10 feet
5	205.0						N/A		
10	200.0								
10	198.0	10-12	S1	10-16-22-35 (38)	24/16		Sand	10.0 ▽ 198.0	S1 - Silty SAND (SM), fine, ~20% fines, 10-15% fine subrounded gravel, weathered rock fragments, light brown to orange, wet
15	195.0							▼	S2 - Silty SAND (SM), fine, ~20% fines, gray, wet
17	190.0	15-17	S2	7-8-11-11 (19)	24/11				
20	185.0	20-22	S3	5-7-9-9 (16)	24/15				S3 - Similar to S2, 25-30% fines, 5-10% fine to coarse subrounded gravel
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/14/18 **DATE COMPLETED:** 6/14/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 208 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 22 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 198.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 15.0 ft. / El. 193.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description	
0								S1 - Top 16": Coal	
2	205.0		S1	5-4-5-5 (9)	24/24		Fill	Bot. 8": Poorly Graded SAND (SP), fine, trace medium, 0-5% fines, trace fine subrounded gravel, light brown, moist	
4			S2	15-21-6-5 (27)	24/6		Buried Subsoil	S2 - Silty SAND with Gravel (SM), fine, 20-25% fines, ~25% fine to coarse subangular gravel, trace organic fines, orange to dark brown, moist	
5			S3	2-4-4-3 (8)	24/5			S3 - Silty SAND with Gravel (SM), fine, trace coarse, 20-25% fines, ~20% fine to coarse subrounded gravel, trace organic fines, orange, moist	
6			S4	5-11-8-10 (19)	24/12			S4 - Silty SAND with Gravel (SM), fine, trace medium to coarse, 15-20% fines, ~15% fine to coarse subrounded gravel, light brown, moist	
8	200.0		S5	9-17-27-21 (44)	24/14			S5 - Similar to S4, angular stone fragments	
10			S6	16-21-20-21 (41)	24/17			▽ S6 - Similar to S4, ~25% fine to coarse subrounded gravel, wet	
12	195.0						Sand		
15			S7	7-15-13-11 (28)	24/14				▽ S7 - Silty SAND with Gravel (SM), fine, trace medium to coarse, ~25% fines, ~15% fine to coarse subrounded gravel, gray, wet
17	190.0								
20			S8	7-10-15-20 (25)	24/20			S8 - Silty SAND (SM), fine, 20-25% fines, trace fine subrounded gravel, gray, wet	
22	185.0							Bottom of borehole at 22.0 feet. Backfilled borehole with drill cuttings.	
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/15/18 **DATE COMPLETED:** 6/15/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 205 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 32 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 20.0 ft. / El. 185.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 21.0 ft. / El. 184.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Fill		S1 - Coal
		2	S1	2-3-3-6 (6)	24/17				S2 - Top 12": Angular stone fragments
							Sand	3.0 202.0	Bot. 4": Poorly Graded SAND (SP), fine, 0-5% fines, light brown, moist
5	200.0		S2	17-34-47-25 (81)	24/16				S3 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 5-10% fines, 5-10% fine subrounded gravel, light brown, moist
		4	S3	18-22-24-17 (46)	24/13				S4 - Well Graded SAND with Silt (SW-SM), fine to coarse, ~5% fines, 5-10% fine subrounded gravel, angular stone fragments, light brown, moist
		6	S4	44-47-33-35 (80)	24/16				S5 - Similar to S4
		8	S5	14-21-22-20 (43)	24/14				S6 - Similar to S4, tan to gray
10	195.0		S6	26-68-44-120/0" (112)	18/11				S7 - Similar to S4, 5-10% fines, light brown to orange
		11.5							▽ S8 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 20-25% fine to coarse subrounded gravel, light brown, wet
		15	S7	30-60-32-45 (92)	24/15				
		17							
20	185.0		S8	24-14-12-14 (26)	24/14				
		22							
25	180.0								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		25	S9	6-7-8-12 (15)	24/4		Sand	S9 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, ~10% fines, light brown, wet
		27						
30	175.0	30	S10	8-11-17-22 (28)	24/20			S10 - Poorly Graded SAND with Silt (SP-SM), fine, ~10% fines, light brown, wet
		32						
								Bottom of borehole at 32.0 feet. Backfilled borehole with drill cuttings.
35	170.0							
40	165.0							
45	160.0							
50	155.0							
55	150.0							
60	145.0							

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/11/18 **DATE COMPLETED:** 6/12/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Near farm off Chesnut Street, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 203 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 32 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 15.0 ft. / El. 188.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 16.0 ft. / El. 187.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC / TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0								
2			S1	3-5-6-12 (11)	24/13		Fill	S1 - Silty SAND (SM), fine to medium, 25-30% fines, trace fine subangular gravel, trace asphalt, dark brown to black, moist
200.0			S2	24-21-32-70 (53)	24/10			S2 - Silty GRAVEL with Sand (GM), fine, trace coarse, 15-20% fines, 40-45% fine to coarse sand, light brown to tan, moist
4			S3	35-38-55-75 (93)	24/12	1		S3 - Similar to S2, trace organic fines REMARK 1: Heavy drill chatter from 5 feet to 8 feet.
5								
6			S4	35-36-39-37 (75)	24/10		Sand	S4 - Silty SAND with Gravel (SM), fine, 15-20% fines, 20-25% fine subangular gravel, light brown to tan, moist
195.0			S5	8-33-42-51 (75)	24/12			S5 - Similar to S4, fine to medium, trace coarse
10			S6	16-25-25-22 (50)	24/17	2		REMARK 2: On 6/11/18, left auger in borehole at 10 feet. Samples S6-S10 were taken on 6/14/18. S6 - Similar to S5, 25-30% fine to coarse subrounded gravel
15			S7	35-23-20-12 (43)	24/11			▽ S7 - Similar to S6, wet ▼
185.0								
20			S8	17-18-15-16 (33)	24/18			S8 - Similar to S7
180.0								
25								

GENERAL NOTES:

- The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/11/18 **DATE COMPLETED:** 6/11/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Near farm off Chestnut Street, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 202 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 22 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 15.0 ft. / El. 187.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	200.0	0	S1	4-4-3-11 (7)	24/16		Fill	S1 - Top 14": Silty SAND (SM), fine to medium, ~20% fines, trace asphalt, trace slag, dark brown to black, moist Bot. 2": Silty SAND (SM), fine, trace medium to coarse, 15-20% fines, trace organic fines, trace wood, trace roots, light brown to orange, moist S2 - Similar to Bot. 2" of S1, fine, 20-25% fines, trace fine subangular gravel
		2	S2	4-3-2-2 (5)	24/17			S3 - Similar to S2
5		4	S3	0-0-1-1 (1)	24/20			
		6	S4	0-10-11-19 (21)	24/13			S4 - Top 7": Similar to S2, tan to orange
	195.0	6.6					Sand	Bot. 6": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown, moist S5 - Poorly Graded SAND with Silt (SP-SM), fine to medium, 5-10% fines, trace fine gravel, light brown, moist
		8	S5	8-14-12-10 (26)	24/17			
10		10						
	190.0							
15		15	S6	28-37-35-53 (72)	24/18			▽ S6 - Silty SAND with Gravel (SM), fine to coarse, ~15% fines, ~30% fine subangular gravel, light brown, wet
	185.0	17						
20		20	S7	23-26-89-30 (115)	24/24			S7 - Silty SAND with Gravel (SM), fine, ~20% fines, 15-20% fine angular gravel, light brown, wet
	180.0	22						Bottom of borehole at 22.0 feet. Backfilled borehole with drill cuttings.
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/8/18 **DATE COMPLETED:** 6/8/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Behind farm off Chestnut Street **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 202 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 22 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 80s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 16.1 ft. / El. 185.9 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 17.5 ft. / El. 184.5 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	0.5 S1 - Top 6": Silty SAND (SM), fine, trace medium, 20-25% fines, trace fine gravel, trace roots, trace organic fines, trace leaves, dark brown, moist
	200.0	2	S1	3-4-17-22 (21)	24/20		Fill	201.5 Mid. 8": Silty SAND (SM), fine to medium, trace coarse, ~20% fines, trace fine gravel, trace organic fines, trace wood, trace asphalt, dark brown to black, moist
		3	S2	30-80	12/10			2.0 200.0 Bot. 6": Poorly Graded SAND with Silt and Gravel (SP-SM), fine, trace medium to coarse, 5-10% fines, 15-20% fine to coarse angular gravel, light brown, moist
		5					Sand	S2 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine, trace medium to coarse, 5-10% fines, ~15% fine angular gravel, light brown, moist REMARK 1: Auger chattered from 3 feet to 5 feet. Observed pieces of gravel in drill cuttings.
	195.0	7	S3	15-39-30-29 (69)	24/18			S3 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, trace coarse, ~10% fines, ~20% fine to coarse angular gravel, light brown to tan, moist
		9	S4	21-24-32-31 (56)	24/16			S4 - Similar to S3
	10	11	S5	33-51-52-46 (103)	24/17			S5 - Similar to S3, 10-15% fines, 25-30% fine angular gravel
	190.0	15						
	185.0	17	S6	9-43-28-26 (71)	24/16			S6 - Silty SAND with Gravel (SM), fine to coarse, 15-20% fines, 20-25% fine subangular gravel, light brown, moist (wet at Bot. 3") ▽
	20	20						
	180.0	22	S7	21-28-26-21 (54)	24/18			S7 - Silty SAND (SM), fine, trace medium, ~20% fines, ~5% fine subangular gravel, light brown to gray, wet ▼
								Bottom of borehole at 22.0 feet. Backfilled borehole with drill cuttings.
	25							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/11/18 **DATE COMPLETED:** 6/11/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off farm near Chestnut Street, MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 203 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 32 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 15.0 ft. / El. 188.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0					Topsoil	0.4	S1 - Top 5": Silty SAND (SM), fine, 25-30% fines, trace fine to coarse subangular gravel, trace organic fines, trace grass, trace roots, dark brown, moist Bot. 8": Silty SAND (SM), fine, trace medium, ~15% fines, trace organic fines, trace roots, trace leaves, trace wood, tan, moist S2 - Top 6": Silty SAND (SM), fine, trace medium, 15-20% fines, trace fine subangular gravel, trace organic fines, trace asphalt, trace wood, dark brown to black, moist Bot. 14": Poorly Graded SAND (SP), fine to medium, 0-5% fines, light brown moist S3 - Well Graded SAND (SW), fine to coarse, 0-5% fines, 5-10% fine gravel, light brown, moist S4 - Well Graded SAND (SW), fine to coarse, ~5% fines, 10-15% fine subangular gravel, light brown, moist REMARK 1: Auger chattered from 7 feet to 8 feet. S5 - Well Graded SAND with Gravel (SW), fine to coarse, ~5% fines, 15-20% fine gravel, light brown, moist S6 - Silty SAND (SM), fine, ~15% fines, light brown, wet S7 - Silty SAND (SM), fine, trace medium, ~20% fines, trace fine gravel, light brown to gray, moist
		2	S1	3-10-8-7 (18)	24/13		Fill	202.6	
	200.0		S2	13-12-11-13 (23)	24/20			2.5	
		4					Sand	200.5	
5			S3	10-9-9-8 (18)	24/13				
		6							
	195.0		S4	12-17-16-17 (33)	24/11	1			
10		10							
	190.0								
15		15							
		17	S6	7-8-8-8 (16)	24/15				
	185.0								
20		20							
		22	S7	17-18-23-22 (41)	24/18				
	180.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/26/18 **DATE COMPLETED:** 6/26/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Driveway near 49 Forest Avenue **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 214 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 80s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 204.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 10.0 ft. / El. 204.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0						
		0 - 2	G1		24/24		Topsoil	G1 - Poorly Graded SAND with Silt (SP-SM), fine to medium, ~10% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, moist
	210.0	2 - 5.5	G2		42/42		Fill	G2 - Silty SAND (SM), fine, ~20% fines, trace fine subrounded gravel, trace organic fines, trace roots, trace wood, orange to brown, moist
5		5.5 - 6	G3		6/6			G3 - Similar to G2, 15-20% fines, brown
		6 - 8	S1	4-5-33-45 (38)	24/17	1	Sand	REMARK 1: Borehole was previously vacuum explored on 6/6/18. S1 - Silty SAND (SM), fine, trace medium to coarse, 20-25% fines, 5-10% fine subangular gravel, light brown to orange, moist
	205.0	8 - 10	S2	10-39-27-50 (66)	24/18			S2 - Silty SAND (SM), fine, trace coarse, ~30% fines, angular stone fragments, gray, moist
10		10 - 12	S3	15-23-26-37 (49)	24/8			S3 - Silty SAND (SM), fine, trace medium to coarse, ~20% fines, ~5% fine subangular gravel, angular stone fragments, orange, wet
		12 - 12.8	S4	20-120/3"	9/9	2		S4 - Silty SAND (SM), fine, trace medium to coarse, ~25% fines, trace fine to coarse subrounded gravel, trace weathered rock, light brown, wet
	200.0	12.8 - 14						REMARK 2: Drill chattered from 13 feet to 15 feet.
15		14 - 15	S5	15-120	12/10			S5 - Similar to S4, angular stone fragments
		15 - 15.0						Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
	195.0							
20								
	190.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/8/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near 100 Forest Avenue **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 227 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 12.5 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 11.0 ft. / El. 216.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 5.0 ft. / El. 222.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0.8					Asphalt	Drilled through 10 inches of asphalt.
	225.0		G1				Fill	G1 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, trace coarse, 5-10% fines, 30-35% fine to coarse subangular gravel, trace asphalt, brown, moist
5								
	220.0	6.1	S1	120/1"	1/0	1		REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/4/18.
		8	S2	120/0"	0/0	2	Boulder	REMARK 2: Auger refusal at 7 feet. Switched to 4 inch casing. Open hole at 7 feet. REMARK 3: No recovery
10		11.3	S3	120/4"	4/3	3	Sand	S3 - Silty SAND (SM), fine, trace medium to coarse, ~25% fines, trace fine subrounded gravel, light brown to orange, wet
	215.0							REMARK 3: Hole collapsed at 12.5 feet.
								Bottom of borehole at 12.5 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
15								
	210.0							
20								
	205.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/7/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Intersection of Forest Ave. and Marlborough St. **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 231 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 221.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 10.0 ft. / El. 221.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	230.0	0.8					Asphalt	Drilled through 10 inches of asphalt.
			G1				Fill	G1 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 10-15% fines, ~20% fine subangular gravel, brown, moist
5		4	G2					G2 - Poorly Graded SAND (SP), fine to medium, 0-5% fines, trace fine subrounded gravel, light brown, moist
	225.0	6	S1	2-2-2 (4)	24/2	1	Sand	REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/4/18. S1 - Poorly Graded SAND (SP), fine to medium, 0-5% fines, trace fine subrounded gravel, light brown, moist
		8	S2	8-8-6-5 (13)	24/5	S2 - Silty SAND (SM), fine to medium, ~15% fines, light brown to orange, moist		
10		10	S3	2-3-3-6 (6)	24/14	S3 - Silty SAND (SM), fine, trace medium, ~15% fines, trace fine subrounded gravel, brown to gray, wet		
	220.0	12	S4	6-8-25-37 (33)	24/18	S4 - Similar to S3, fine, angular stone fragments, tan to gray		
15		14	S5	11-9-14-17 (23)	24/15	S5 - Silty SAND with Gravel (SM), fine, ~15% fines, 15-20% fine subrounded gravel, light brown to orange, wet		
	215.0	16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
20								
	210.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/7/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near 126 Forest Avenue **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 240 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 DURING DRILLING: - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 AT END OF DRILLING: Not encountered **CORE BARREL SIZE:** NA
 OTHER: - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0.8					Asphalt	Drilled through 9 inches of asphalt.
			G1					G1 - Silty SAND (SM), fine, trace medium to coarse, ~20% fines, 0-5% fine to coarse subrounded gravel, brown to orange, moist
5	235.0						Sand	
		6	S1	15-8-11-17 (19)	24/18	1		REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/4/18. S1 - Poorly Graded SAND with Silt and Gravel (SP-SM), fine, trace medium to coarse, 10-15% fines, ~25% fine subrounded gravel, brown, moist
		8	S2	20-18-30-32 (48)	24/20			S2 - Weathered rock fragments
10	230.0	10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
15	225.0							
20	220.0							
25	215.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/7/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near Forest Avenue and Richardson Street **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 232 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 5.0 ft. / El. 227.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 9.0 ft. / El. 223.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
		0.8					Asphalt	0.8	Drilled through 9 inches of asphalt.
	230.0	Hand icon	G1				Fill	231.2	G1 - Silty SAND (SM), fine, trace medium to coarse, ~20% fines, 0-5% fine to coarse subrounded gravel, trace organic fines, dark brown, moist
		3	G2					231.2	G2 - Silty SAND (SM), fine to medium, trace coarse, ~20% fines, trace fine to coarse subangular gravel, trace asphalt, light brown, moist
5		5					Sand	5.5	▽ S1 - Silty SAND (SM), fine, trace medium to coarse, 20-25% fines, 0-5% fine gravel, brown, wet
	225.0	5.5	G3 S1	0-0-1-2 (1)	24/4	1		226.5	G3 - Silty SAND with Gravel (SM), fine to medium, trace coarse, 20-25% fines, 25-30% fine to coarse subrounded gravel, brown to orange, wet REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/5/18.
		7	S2	12-15-23-20 (38)	24/17				S2 - Silty SAND (SM), fine to medium, ~20% fines, trace weathered rock fragments, light brown to orange, wet
10		9	S3	12-19-21-18 (40)	24/10				▼ S3 - Silty SAND (SM), fine to coarse, ~20% fines, trace fine subrounded gravel, red to brown, wet
	220.0	11	S4	13-11-35-17 (46)	24/15				S4 - Well Graded SAND with Silt (SW-SM), fine to coarse, 10-15% fines, trace fine to coarse subrounded gravel, gray, wet
		13	S5	6-11-12-15 (23)	24/13				S5 - Similar to S4, weathered rock fragments
15		15						15.0	Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
	215.0								
20									
	210.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/8/18 **DATE COMPLETED:** 6/8/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near 153 Forest Avenue **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI: 231 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 Truck Rig
WEATHER: 80s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 8.0 ft. / El. 223.0 ft. (Based on sample moisture) **SPLIT SPOON DIA:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 9.0 ft. / El. 222.0 ft. **CORE BARREL SIZE:** NA
 ▽ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	230.0	0.8					Asphalt	Drilled through 10 inches of asphalt.
			G1					G1 - Poorly Graded SAND with Silt (SP-SM), fine, 10-15% fines, trace fine subrounded gravel, light brown to tan, moist
5								
	225.0	6	S1	0-0-0-0 (0)	24/0	1	Sand	REMARK 1: Borehole was previously vacuum explored to a depth of 6 feet on 6/5/18. S1 - No recovery
		8	S2	1-1-3-3 (4)	24/15			▽ S2 - Similar to G1, no gravel, wet ▼
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
	220.0							
15								
	215.0							
20								
	210.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/11/18 **DATE COMPLETED:** 6/11/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Roadway near 156 Forest Avenue **DRILLING FOREMAN:** Justin Emma
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 221 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Sunny **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 6.0 ft. / El. 215.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 7.0 ft. / El. 214.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	220.0	0.7					Asphalt	Drilled through 8 inches of asphalt.
			G1				Fill	G1 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, ~15% fine subrounded gravel, brown, moist
		3	G2			G2 - Similar to G1, 10-15% fines, ~25% fine subrounded gravel		
5		5	G3			G3 - Silty SAND (SM), fine, 15-20% fines, gray, moist		
	215.0	6	S1	2-4-3-2 (7)	24/17		Sand	▽ S1 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium, 10-15% fines, light brown to orange, wet ▼ S2 - Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, gray, wet
		8	S2	4-3-4-4 (7)	24/20	S3 - Similar to S2		
10		10	S3	1-1-3-3 (4)	24/15	S4 - Similar to S2		
	210.0	12	S4	3-2-3-2 (5)	24/18	S5 - Similar to S2		
		14	S5	1-2-2-4 (4)	24/19			
15		16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings. Restored ground surface with asphalt cold patch.
	205.0							
20								
	200.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/15/18 **DATE COMPLETED:** 6/15/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 198 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** - **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** Not encountered **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0						
		1.7	S1	6-5-15-34/2" (20)	20/14		Fill	S1 - Poorly Graded SAND (SP), fine to medium, trace coarse, 0-5% fines, 5-10% fine subangular gravel, brown to orange, moist
		2.6	S2	10-50/1"	7/0			S2 - No recovery
	195.0							
5		4	S3	5-3-3-6 (6)	24/9		Buried Subsoil	S3 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 10-15% fines, 5-10% fine subrounded gravel, trace organic fines, brown to orange, moist
		6	S4	19-21-11-10 (32)	24/11		Sand	S4 - Silty SAND (SM), fine, trace medium, 15% fines, light brown, moist
	190.0	8	S5	16-29-16-14 (45)	24/12			S5 - Well Graded SAND with Silt (SW-SM), fine to medium, trace coarse, 5-10% fines, ~10% fine to coarse subrounded gravel, light brown, moist
10		10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
	185.0							
15								
	180.0							
20								
	175.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/27/18 **DATE COMPLETED:** 6/27/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 184 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 15 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ∇ **DURING DRILLING:** 6.0 ft. / El. 178.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 9.0 ft. / El. 175.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
0								
2			S1	12-4-5-7 (9)	24/6		Fill	S1 - Poorly Graded SAND (SP), fine, trace medium, 0-5% fines, trace fine subrounded gravel, light brown to gray, moist
4			S2	24-12-5-5 (17)	24/23			S2 - Top 13": Silty SAND (SM), fine, trace medium, ~20% fines, ~5% fine to coarse gravel, trace organic fines, trace roots, trace coal ash, dark brown, moist
5	180.0		S3	5-6-4	24/3		Sand	Bot. 10": Poorly Graded SAND (SP), fine, 0-5% fines, light brown, moist
6			S4	5-4-3-7 (7)	24/13			∇ S4 - Top 7": Poorly Graded SAND (SP), fine, 0-5% fines, light brown, wet Bot. 6": Well Graded SAND (SW), fine to coarse, 0-5% fines, ~5% fine subrounded gravel, brown, wet
8	175.0		S5	5-3-3-3 (6)	24/8			S5 - Similar to Bot. 6" of S4, gray
10								▼
13	170.0		S6	9-3-5-22 (8)	24/11			S6 - Similar to S5
15								Bottom of borehole at 15.0 feet. Backfilled borehole with drill cuttings.
20	165.0							
25	160.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/27/18 **DATE COMPLETED:** 6/27/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 190 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 14 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Partly Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 180.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 10.5 ft. / El. 179.5 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** TS **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	Depth El. (ft.) 0.3 189.7 S1 - Top 4": Silty SAND (SM), fine, ~15% fines, trace organic fines, trace wood, black, moist Bot. 15": Poorly Graded SAND with Silt (SP-SM), fine, 5-10% fines, ~5% fine subrounded gravel, light brown, moist S2 - Top 15": Similar to Bot. 15" of S1 Bot. 5": Silty SAND (SM), fine, trace coarse, ~20% fines, trace organic fines, trace roots, brown to orange, moist S3 - Poorly Graded SAND with Silt (SP-SM), fine, 10-15% fines, trace fine subrounded gravel, trace organic fines, trace roots, dark brown, moist
		2	S1	5-8-9-7 (17)	24/19		Fill	
		4	S2	8-4-3-3 (7)	24/20			
5	185.0	6	S3	3-2-4-6 (6)	24/7			
		6	S4	6-5-3-3 (8)	24/9		Sand	6.0 184.0 S4 - Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, 10-15% fines, 5-10% fine to coarse subrounded gravel, trace roots, light brown to orange, moist S5 - Well Graded SAND (SW), fine to coarse, 0-5% fines, trace fine gravel, brown, moist ▽ ▼ S6 - Similar to S5, wet S7 - Similar to S5, brown to orange, wet
		8	S5	4-5-7-7 (12)	24/12			
10	180.0	10	S6	6-6-7-4 (13)	24/15			
		12	S7	5-7-7-6 (14)	24/15			
		14						
15	175.0							Bottom of borehole at 14.0 feet. Backfilled borehole with drill cuttings.
		20						
		25						

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/7/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off Main St., MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 200 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 16 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 10.0 ft. / El. 190.0 ft. (Based on measurement) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** 10.0 ft. / El. 190.0 ft. **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	S1 - Top 7": Silty SAND (SM), fine, trace medium, 25-30% fines, trace organic fines, trace leaves, dark brown, moist
			S1	3-3-4-4 (7)	24/23		Subsoil	Mid. 6": Silty SAND (SM), fine, ~15% fines, trace organic fines, light brown to tan, moist
		2						Bot. 10": Poorly Graded SAND (SP), fine, trace medium, ~5% fines, light brown to orange, moist
			S2	5-5-5-5 (10)	24/18			S2 - Silty SAND (SM), fine, ~15% fines, light gray, moist
5	195.0	4						S3 - Poorly Graded SAND (SP), fine, ~5% fines, light brown to tan, moist
			S3	6-6-7-5 (13)	24/6			
		6						S4 - Similar to S3, 5-10% fines
			S4	4-6-5-6 (11)	24/13			
		8						S5 - Well Graded SAND (SW), fine to medium, trace coarse, ~5% fines, ~10% fine to coarse gravel, light brown, moist
10	190.0	10					Sand	▼ S6 - Poorly Graded SAND (SP), fine, 5-10% fines, light brown, wet
			S5	8-9-12-10 (21)	24/11			
		12						S7 - Similar to S6
			S6	8-7-6-5 (13)	24/20			
		14						S8 - Similar to S6, trace medium to coarse, trace fine gravel
15	185.0		S7	3-4-5-5 (9)	24/15			
		16						Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
			S8	2-4-10-9 (14)	24/22			
20	180.0							
25	175.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: 6/7/18 **DATE COMPLETED:** 6/7/18 **DRILLING SUBCONTRACTOR:** Geosearch, Inc.
BORING LOCATION: Off Main St., MBTA ROW **DRILLING FOREMAN:** Kenny Bylund
COORDINATES: NA **DRILLING METHOD:** Hollow Stem Augers 4-1/4" I.D.
SURFACE EI.: 211 ft. NAVD 88 (see note 1) **TOTAL DEPTH:** 10 ft. **DRILL RIG TYPE/MODEL:** CME 55 LC ATV
WEATHER: 70s / Cloudy **HAMMER TYPE:** Automatic
GROUNDWATER LEVELS: **HAMMER WEIGHT:** 140 lb. **HAMMER DROP:** 30 in.
 ▽ **DURING DRILLING:** 6.0 ft. / El. 205.0 ft. (Based on sample moisture) **SPLIT SPOON DIA.:** 1.375 in. I.D., 2 in. O.D.
 ▼ **AT END OF DRILLING:** - **CORE BARREL SIZE:** NA
 ▼ **OTHER:** - **LOGGED BY:** MC **CHECKED BY:** NB

Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Depth El. (ft.)	Material Description
	210.0	0	S1	3-6-6-8 (12)	24/19		Topsoil	0.6	S1 - Top 7": Silty SAND (SM), fine, trace medium, 15-20% fines, trace fine gravel, trace organic fines, trace roots, moist
		2	S2	7-9-10-11 (19)	24/15		Fill	2.0	Bot. 12": Poorly Graded SAND (SP), fine to medium, trace coarse, ~5% fines, 5-10% fine gravel, trace organic fines, orange to light brown, moist
		4	S3	6-7-10-13 (17)	24/20		Sand	209.0	S2 - Well Graded SAND with Silt (SW-SM), fine to coarse, 5-10% fines, 10-15% fine gravel, tan, moist
5									S3 - Similar to S2
	205.0	6	S4	12-10-8-9 (18)	24/17			▽	S4 - Similar to S2, trace coarse sand, trace fine gravel, wet
		8	S5	8-10-13-13 (23)	24/24				S5 - Similar to S2, ~5% fine gravel, wet
10		10							
	200.0								Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15									
	195.0								
20									
	190.0								
25									

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. PROJECT NAME: Proposed Transmission Power Line Borings
 LGCI PROJECT NUMBER: 1836 PROJECT LOCATION: Hudson, Massachusetts

DATE STARTED: 6/7/18 DATE COMPLETED: 6/7/18 DRILLING SUBCONTRACTOR: Geosearch, Inc.
 BORING LOCATION: Off Main St., MBTA ROW DRILLING FOREMAN: Kenny Bylund
 COORDINATES: NA DRILLING METHOD: Hollow Stem Augers 4-1/4" I.D.
 SURFACE EI.: 211 ft. NAVD 88 (see note 1) TOTAL DEPTH: 16 ft. DRILL RIG TYPE/MODEL: CME 55 LC ATV
 WEATHER: 70s / Cloudy HAMMER TYPE: Automatic
 GROUNDWATER LEVELS: HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.
 ▽ DURING DRILLING: 8.0 ft. / El. 203.0 ft. (Based on sample moisture) SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.
 ▼ AT END OF DRILLING: 10.0 ft. / El. 201.0 ft. CORE BARREL SIZE: NA
 ▼ OTHER: - LOGGED BY: MC CHECKED BY: NB

Depth (ft.)	EI. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
	210.0	0	S1	3-2-2-2 (4)	24/22		Forest Mat	S1 - Top 7": Silty SAND (SM), fine, trace medium, ~25% fines, trace organic fines, trace leaves, dark brown, moist (forest mat)
							Topsoil	Mid. 11": Silty SAND (SM), fine, trace medium, 20-25% fines, trace organic fines, trace roots, trace wood, dark brown, moist
		2	S2	3-7-8-10 (15)	24/17		Subsoil	Bot. 4": Silty SAND (SM), fine, trace medium, 15-20% fines, trace organic fines, brown to orange, moist
								S2 - Top 3": Similar to Bot. 4" of S1, trace fine gravel
5		4	S3	5-10-13-12 (23)	24/16			Bot. 14": Poorly Graded SAND (SP), fine to medium, trace coarse, ~5% fines, light brown, moist
	205.0	6	S4	14-13-12-12 (25)	24/20			S3 - Well Graded SAND with Silt (SW-SM), fine to coarse, 5-10% fines, 5-10% fine gravel, light brown, moist
		8	S5	5-7-9-7 (16)	24/19		Sand	S4 - Similar to S3, ~5% fine gravel
10		10	S6	9-6-6-7 (12)	24/20			▽ S5 - Similar to S3, wet
	200.0	12	S7	4-8-10-8 (18)	24/24			▼ S6 - Similar to S3, ~10% fine gravel, wet
		14	S8	7-9-11-8 (20)	24/20			S7 - Top 12": Similar to S3, ~5% fine gravel, wet
15		16						Bot. 12": Silty SAND (SM), fine, ~20% fines, gray to tan, wet
	195.0							S8 - Similar to Bot. 12" of S7
								Bottom of borehole at 16.0 feet. Backfilled borehole with drill cuttings.
20								
	190.0							
25								

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

CLIENT: Vanasse Hangen Brustlin, Inc. **PROJECT NAME:** Proposed Transmission Power Line Borings
LGCI PROJECT NUMBER: 1836 **PROJECT LOCATION:** Hudson, Massachusetts

DATE STARTED: <u>6/4/18</u> DATE COMPLETED: <u>6/4/18</u> BORING LOCATION: <u>MBTA ROW and Parmenter Road</u> COORDINATES: <u>NA</u> SURFACE EI.: <u>210 ft. NAVD 88 (see note 1)</u> TOTAL DEPTH: <u>10 ft.</u> WEATHER: <u>50s / Rain</u> GROUNDWATER LEVELS: ▽ DURING DRILLING: <u>-</u> ▽ AT END OF DRILLING: <u>Not encountered</u> ▽ OTHER: <u>-</u>	DRILLING SUBCONTRACTOR: <u>Geosearch, Inc.</u> DRILLING FOREMAN: <u>Kenny Bylund</u> DRILLING METHOD: <u>Hollow Stem Augers 4-1/4" I.D.</u> DRILL RIG TYPE/MODEL: <u>CME 55 LC ATV</u> HAMMER TYPE: <u>Automatic</u> HAMMER WEIGHT: <u>140 lb.</u> HAMMER DROP: <u>30 in.</u> SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u> CORE BARREL SIZE: <u>NA</u> LOGGED BY: <u>TS</u> CHECKED BY: <u>NB</u>
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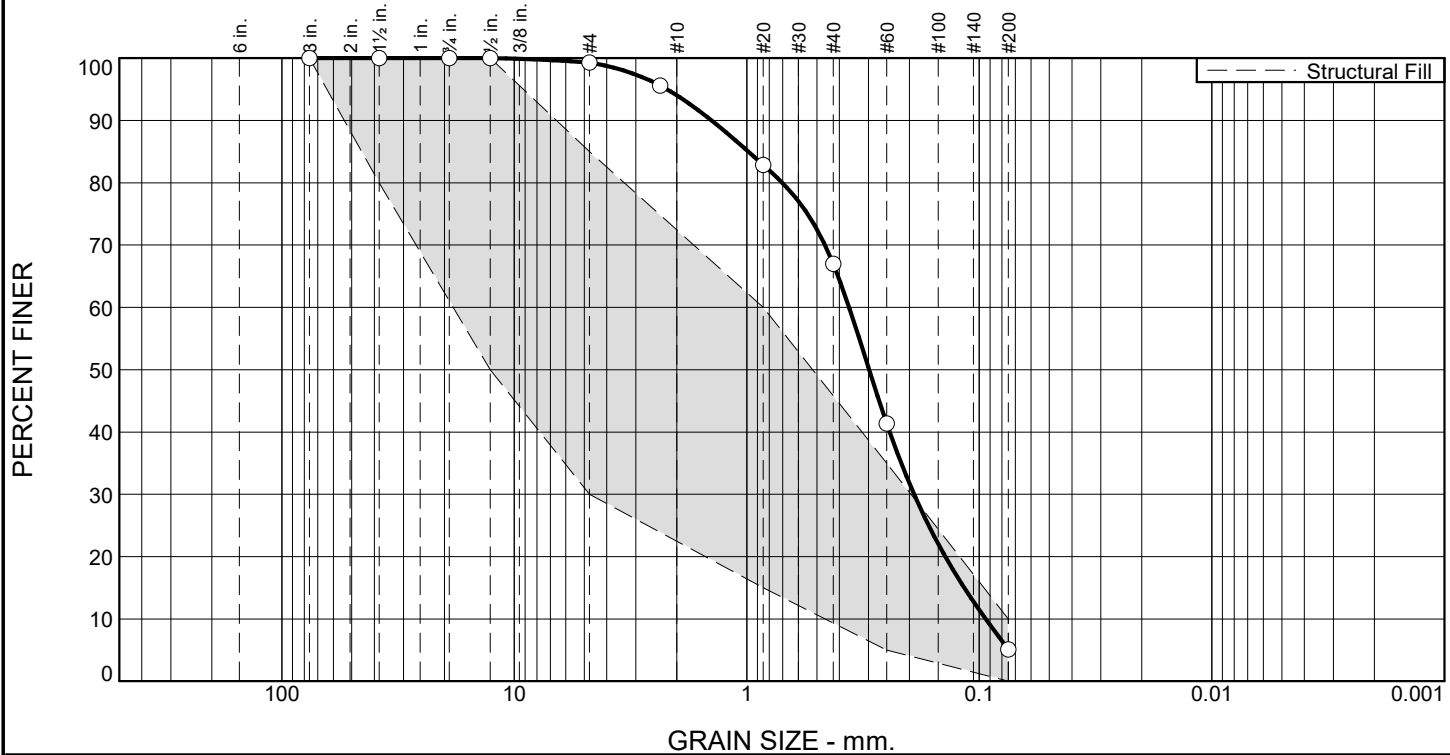
Depth (ft.)	El. (ft.)	Sample Interval (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata	Material Description
		0					Topsoil	Depth El. (ft.) 0.5 209.5 S1 - Top 6": Silty SAND (SM), fine, ~15% fines, trace fine subrounded gravel, trace roots, trace organic fines, dark brown, moist Bot. 18": Similar to Top 6", no gravel, no roots, tan to orange
		2	S2	2-2-5-22 (7)	24/20		Subsoil	S2 - Poorly Graded SAND with Silt (SP-SM), fine, trace medium to coarse, 5-10% fines, trace fine subrounded gravel, trace roots, orange, moist
5	205.0	4	S3	5-26-58-50 (84)	24/18		Sand	4.0 206.0 S3 - Poorly Graded SAND with Gravel (SP), fine to medium, trace coarse, 0-5% fines, ~15% fine subrounded gravel, light brown, moist S4 - Similar to S3, angular stone fragments
		6	S4	39-120/4"	10/5			
		8	S5	22-35-24-36 (59)	24/16			S5 - Silty SAND with Gravel (SM), fine, trace medium, ~15% fines, ~15% fine subrounded gravel, light brown to orange, moist
10	200.0	10						Bottom of borehole at 10.0 feet. Backfilled borehole with drill cuttings.
15	195.0							
20	190.0							
25	185.0							

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot using a drawing titled: "Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Hudson, Massachusetts," prepared by VHB and dated February 14, 2018.

Appendix B - LGCI's Laboratory Test Results

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	0.0	0.7	5.3	27.0	61.9	5.1

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	99.3	30.0 - 85.0	X
#8	95.6		
#20	82.9	15.0 - 60.0	X
#40	67.0		
#60	41.4	5.0 - 35.0	X
#200	5.1	0.0 - 10.0	

* Structural Fill

Material Description

ASTM (D 2488) Classification: Poorly Graded SAND with Silt (SP-SM), fine to medium, trace coarse, 5-10% fines, trace fine gravel, light brown, moist

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 1.4168 D₈₅= 0.9854 D₆₀= 0.3628
 D₅₀= 0.2974 D₃₀= 0.1905 D₁₅= 0.1160
 D₁₀= 0.0938 C_u= 3.87 C_c= 1.07

Remarks

Natural sand sample.

Date Received: 6/29/18 Date Tested: 8/3/18

Tested By: N.B.

Checked By: T.S.

Source of Sample: Boring B-24
 Sample Number: S4

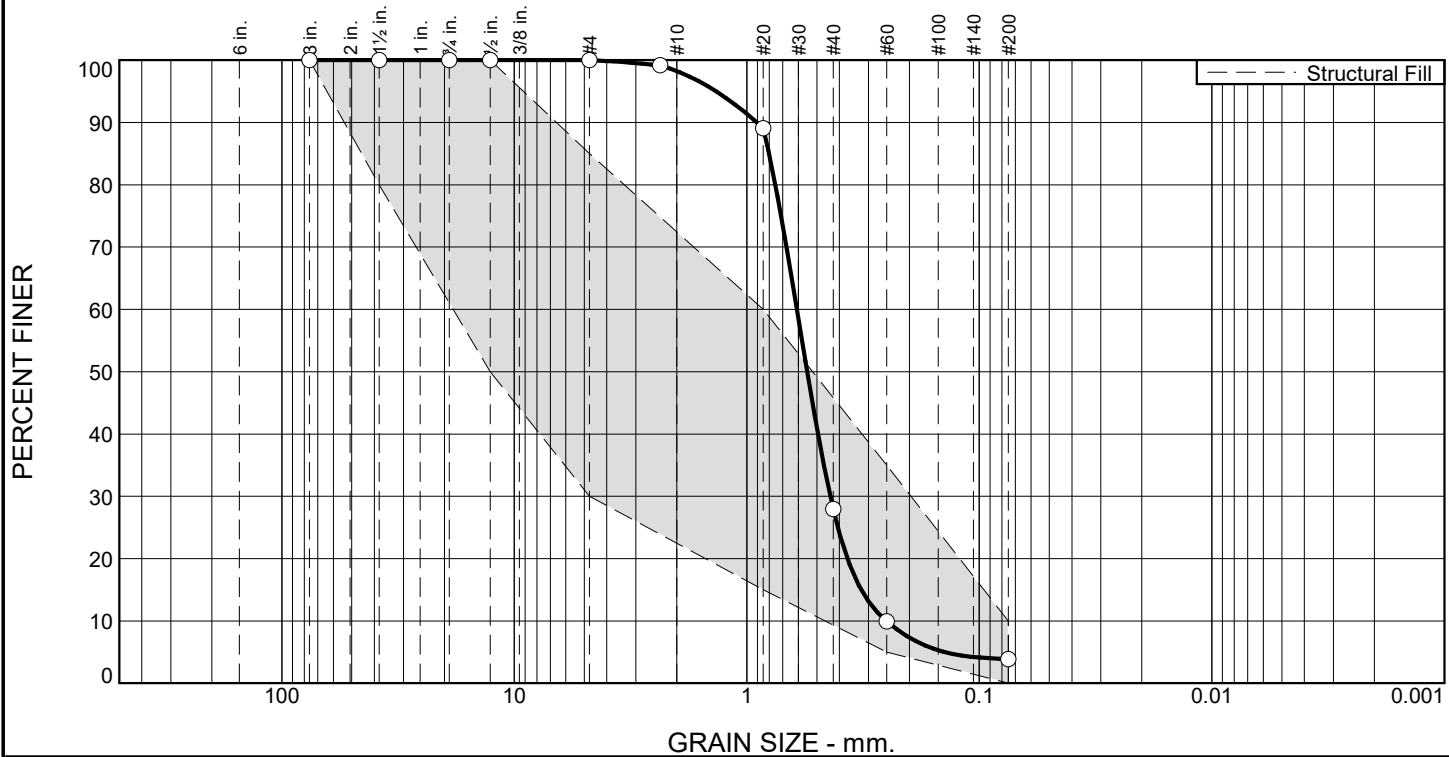
Depth: 6' - 8'

Date Sampled: 6/28/18



Client: Vanasse Hangen Brustlin, Inc.
Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts
Project No: 1836

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	0.0	0.0	1.7	70.3	24.1	3.9

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0		
0.5"	100.0	50.0 - 100.0	
#4	100.0	30.0 - 85.0	X
#8	99.2		
#20	89.1	15.0 - 60.0	X
#40	28.0		
#60	9.9	5.0 - 35.0	
#200	3.9	0.0 - 10.0	

* Structural Fill

Material Description		
ASTM (D 2488) Classification: Poorly Graded SAND (SP), fine to medium, trace coarse, 0-5% fines, brown to orange, wet		
Atterberg Limits (ASTM D 4318)		
PL=	LL=	PI=
Classification		
USCS (D 2487)=	AASHTO (M 145)=	
Coefficients		
D ₉₀ = 0.9047	D ₈₅ = 0.8026	D ₆₀ = 0.6091
D ₅₀ = 0.5501	D ₃₀ = 0.4374	D ₁₅ = 0.3218
D ₁₀ = 0.2509	C _u = 2.43	C _c = 1.25
Remarks		
Natural sand sample.		
Date Received: 6/29/18	Date Tested: 8/3/18	
Tested By: N.B.		
Checked By: T.S.		

Source of Sample: Boring B-24
Sample Number: S7

Depth: 12' - 14'

Date Sampled: 6/28/18

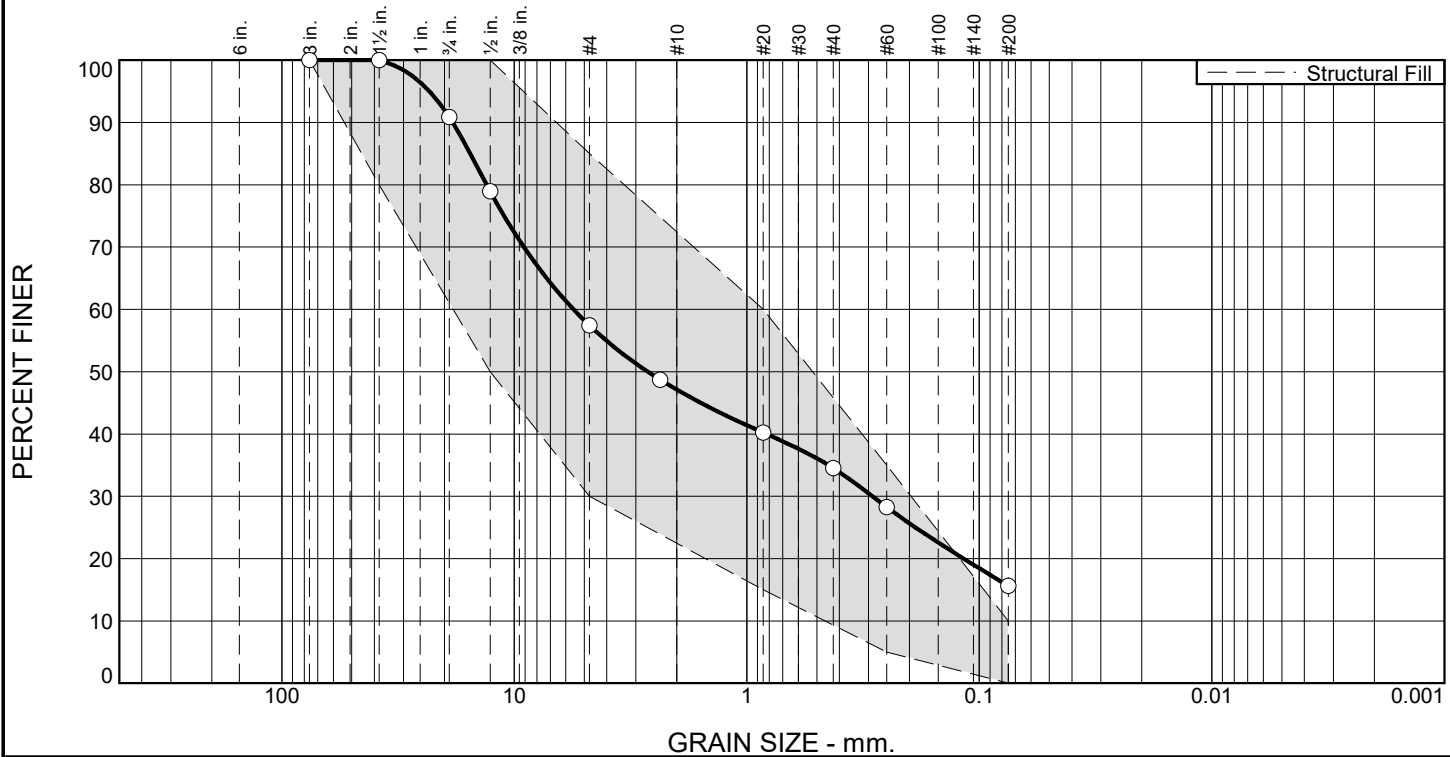


Client: Vanasse Hangen Brustlin, Inc.

Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts

Project No: 1836

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	9.1	33.5	10.3	12.6	18.9	15.6

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	90.9		
0.5"	79.0	50.0 - 100.0	
#4	57.4	30.0 - 85.0	
#8	48.7		
#20	40.2	15.0 - 60.0	
#40	34.5		
#60	28.3	5.0 - 35.0	
#200	15.6	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty GRAVEL with Sand (GM), fine, trace coarse, 15-20% fines, 40-45% fine to coarse sand, light brown to tan, moist

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 18.4049 D₈₅= 15.4727 D₆₀= 5.5597
D₅₀= 2.6663 D₃₀= 0.2880 D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Fill sample.

Date Received: 6/13/18 Date Tested: 8/3/18

Tested By: N.B.

Checked By: T.S.

* Structural Fill

Source of Sample: Boring B-GB-13
Sample Number: S2

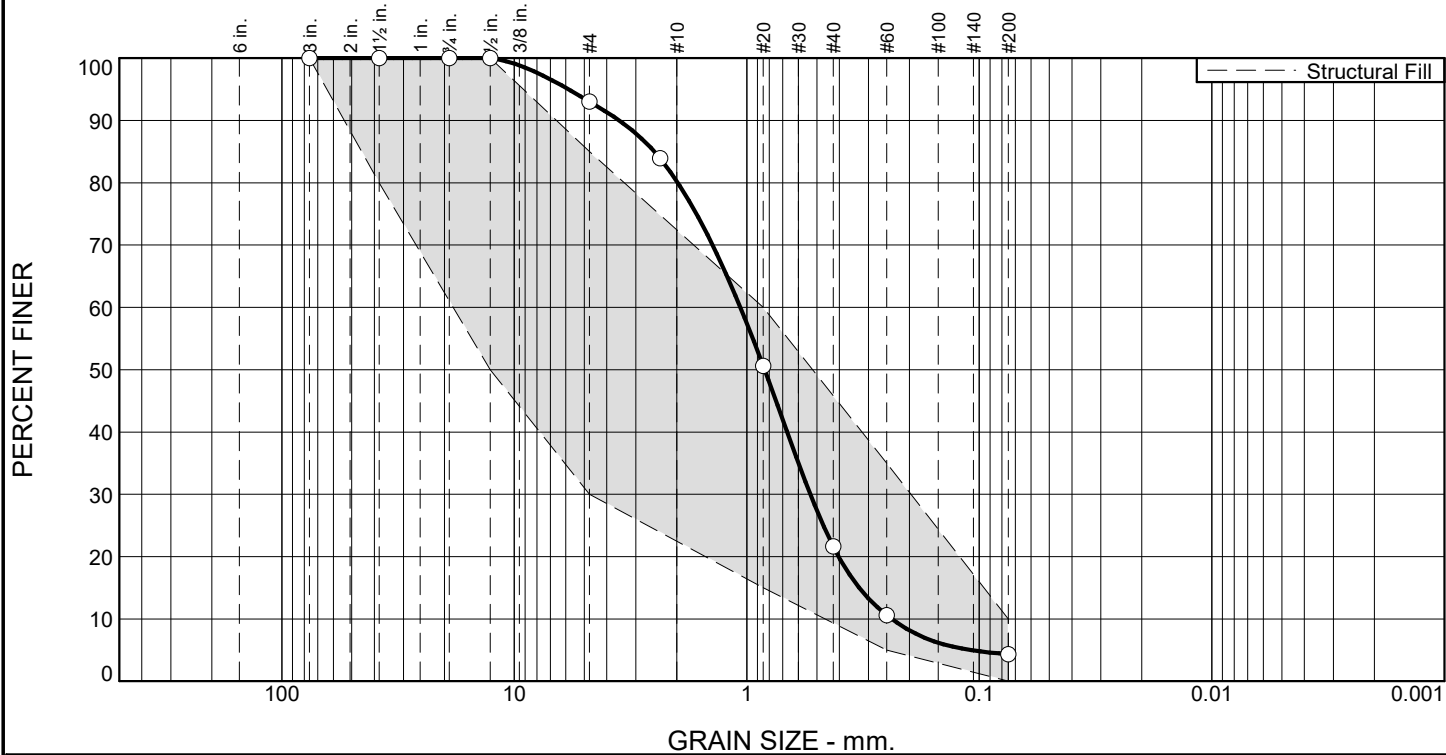
Depth: 2' - 4'

Date Sampled: 6/11/18



Client: Vanasse Hangen Brustlin, Inc.
Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts
Project No: 1836

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	0.0	7.0	12.7	58.7	17.3	4.3

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0	50.0 - 100.0	
0.5"	100.0	50.0 - 100.0	
#4	93.0	30.0 - 85.0	X
#8	83.9	30.0 - 85.0	X
#20	50.6	15.0 - 60.0	X
#40	21.6	15.0 - 60.0	X
#60	10.6	5.0 - 35.0	X
#200	4.3	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Well Graded SAND (SW), fine to coarse, 0-5% fines, 5-10% fine gravel, light brown, moist

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 3.5376 D₈₅= 2.4983 D₆₀= 1.0653
D₅₀= 0.8381 D₃₀= 0.5332 D₁₅= 0.3281
D₁₀= 0.2381 C_u= 4.47 C_c= 1.12

Remarks

Natural sand sample.

Date Received: 6/13/18 Date Tested: 8/3/18

Tested By: N.B.

Checked By: T.S.

* Structural Fill

Source of Sample: Boring B-GB-16
Sample Number: S3

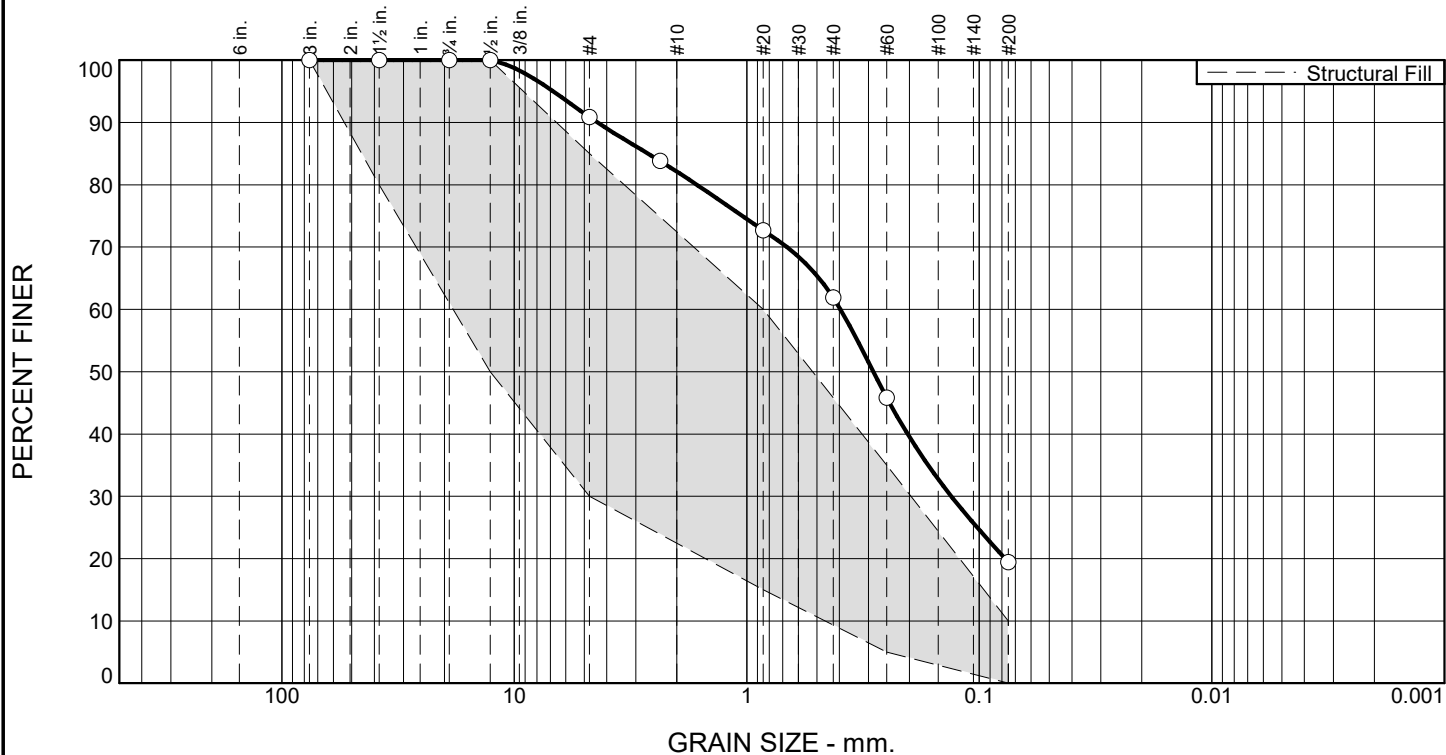
Depth: 4' - 6'

Date Sampled: 6/11/18



Client: Vanasse Hangen Brustlin, Inc.
Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts
Project No: 1836

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	0.0	9.1	8.8	20.2	42.5	19.4

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	100.0	80.0 - 100.0	
0.5"	100.0	50.0 - 100.0	
#4	90.9	30.0 - 85.0	X
#8	83.8	30.0 - 85.0	X
#20	72.7	15.0 - 60.0	X
#40	61.9	15.0 - 60.0	X
#60	45.9	5.0 - 35.0	X
#200	19.4	0.0 - 10.0	X

Material Description

ASTM (D 2488) Classification: Silty SAND (SM), fine to medium, trace coarse, 15-20% fines, 5-10% fine subrounded gravel, trace roots, light brown to orange, moist

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 4.3898 D₈₅= 2.6576 D₆₀= 0.3955
D₅₀= 0.2856 D₃₀= 0.1319 D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Natural sand sample.

Date Received: 6/29/18 Date Tested: 8/3/18

Tested By: N.B.

Checked By: T.S.

* Structural Fill

Source of Sample: Boring B-MP-19
Sample Number: S4

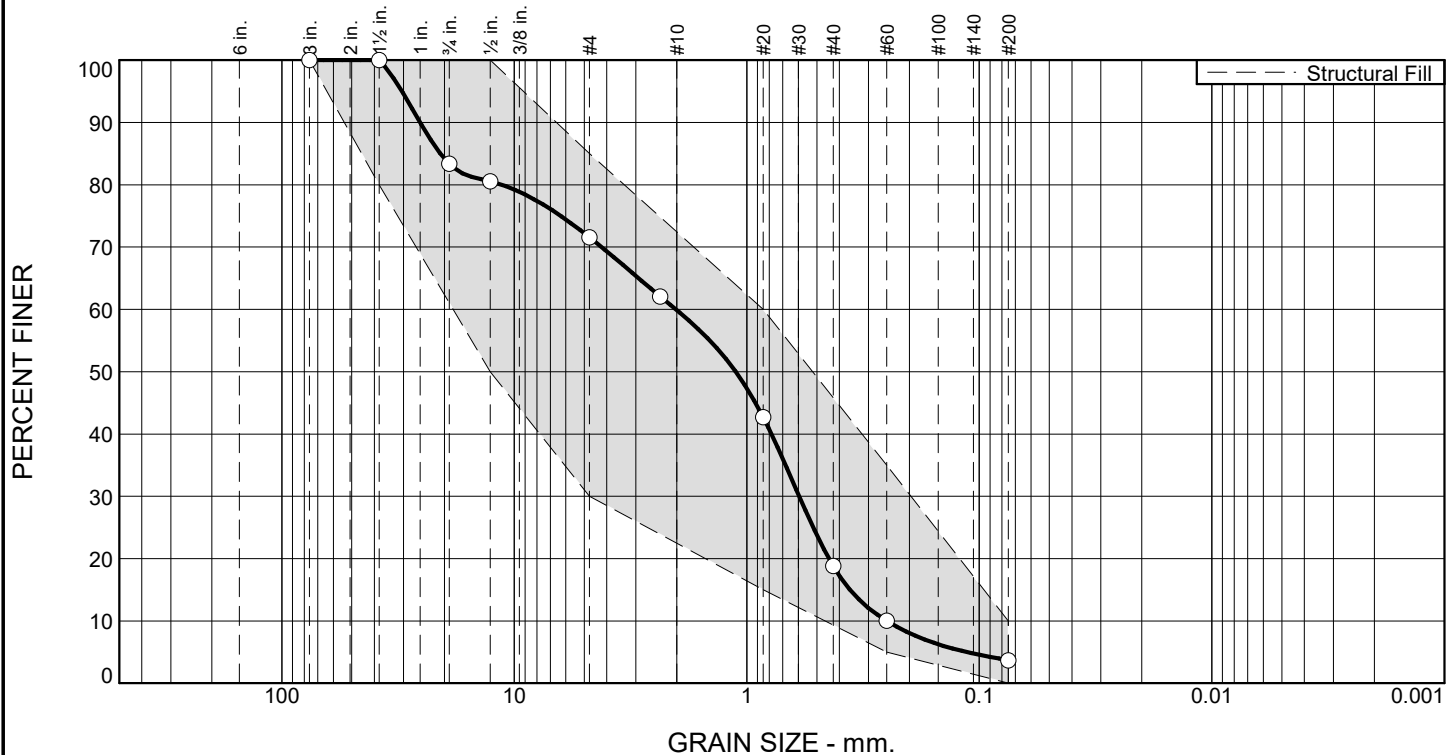
Depth: 6' - 8'

Date Sampled: 6/27/18



Client: Vanasse Hangen Brustlin, Inc.
Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts
Project No: 1836

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0.0	16.6	11.8	11.7	41.1	15.1	3.7

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3"	100.0	100.0	
1.5"	100.0	80.0 - 100.0	
0.75"	83.4		
0.5"	80.6	50.0 - 100.0	
#4	71.6	30.0 - 85.0	
#8	62.1		
#20	42.7	15.0 - 60.0	
#40	18.8		
#60	10.0	5.0 - 35.0	
#200	3.7	0.0 - 10.0	

Material Description

ASTM (D 2488) Classification: Well Graded SAND (SW), fine to coarse, 0-5% fines, 25-30% fine to coarse gravel, brown to orange, wet

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 25.3978 D₈₅= 20.8027 D₆₀= 2.0195
 D₅₀= 1.1158 D₃₀= 0.5955 D₁₅= 0.3596
 D₁₀= 0.2497 C_u= 8.09 C_c= 0.70

Remarks

Natural sand sample.

Date Received: 6/29/18 Date Tested: 8/3/18

Tested By: N.B.

Checked By: T.S.

* Structural Fill

Source of Sample: Boring B-MP-19
 Sample Number: S7

Depth: 12' - 14'

Date Sampled: 6/27/18



Client: Vanasse Hangen Brustlin, Inc.
Project: Proposed Transmission Power Line Borings, Hudson, Massachusetts
Project No: 1836

Appendix C - Borehole Permeability Tests

VARIABLE HEAD PERMEABILITY TEST

Perm. Tests
Hudson, MA
LGCI Project: 1836

LGCI Rep.: T. Sinnott
Calculated by: T. Sinnott
Checked by: AML

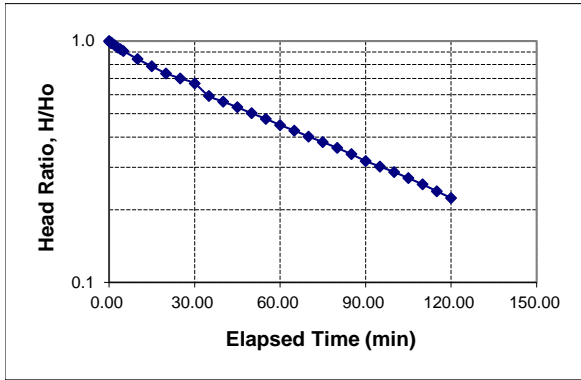
Date: 06/28/17 Boring No. : B-MP-19
Date: 06/29/17 Test No. : #1
Date: 08/15/18

STANDPIPE/RISER DETAILS

Casing inner diam, d, inches: 4.0
Casing length, feet: 15.0
Casing stick up length, feet
(above ground surface) : 3.0
Initial Water Depth
(below top of casing): 13.5

TEST INTERVAL DETAILS

Depth to bottom, feet
(below ground surface): 14.0
Depth to top, feet
(below ground surface): 12.0
Length, L, feet: 2.0
Hole diameter, D, inches: 5.00



Material at 12 ft to 14 ft
test interval: Well Graded SAND (SW), fine, ~5% fines, trace fine gravel
m = 1 i.e., isotropic material

TIME (hr:min:sec)	ELAPSED TIME (min)	DEPTH TO WATER FROM TOP OF CASING (ft)	HEAD H (feet)	HEAD RATIO H/Ho	K (ft/min)	K (cm/sec)
	0.00	0.00	13.50	1.00		
	0.17	0.08	13.42	0.99	5.5E-04	2.8E-04
	0.33	0.13	13.37	0.99	4.6E-04	2.3E-04
	0.50	0.17	13.33	0.99	4.0E-04	2.0E-04
	0.67	0.21	13.29	0.98	3.7E-04	1.9E-04
	0.83	0.25	13.25	0.98	3.5E-04	1.8E-04
	1.00	0.29	13.21	0.98	3.4E-04	1.7E-04
	2.00	0.54	12.96	0.96	3.2E-04	1.6E-04
	3.00	0.79	12.71	0.94	3.2E-04	1.6E-04
	4.00	1.00	12.50	0.93	3.0E-04	1.5E-04
	5.00	1.21	12.29	0.91	2.9E-04	1.5E-04
	10.00	2.13	11.37	0.84	2.7E-04	1.4E-04
	15.00	2.88	10.62	0.79	2.5E-04	1.3E-04
	20.00	3.58	9.92	0.73	2.4E-04	1.2E-04
	25.00	4.04	9.46	0.70	2.2E-04	1.1E-04
	30.00	4.50	9.00	0.67	2.1E-04	1.1E-04
	35.00	5.50	8.00	0.59	2.3E-04	1.2E-04
	40.00	5.92	7.58	0.56	2.3E-04	1.2E-04
	45.00	6.32	7.18	0.53	2.2E-04	1.1E-04
	50.00	6.72	6.78	0.50	2.2E-04	1.1E-04
	55.00	7.07	6.43	0.48	2.1E-04	1.1E-04
	60.00	7.44	6.06	0.45	2.1E-04	1.1E-04
	65.00	7.75	5.75	0.43	2.1E-04	1.0E-04
	70.00	8.07	5.43	0.40	2.0E-04	1.0E-04
	75.00	8.35	5.15	0.38	2.0E-04	1.0E-04
	80.00	8.63	4.87	0.36	2.0E-04	1.0E-04
	85.00	8.91	4.59	0.34	2.0E-04	1.0E-04
	90.00	9.20	4.30	0.32	2.0E-04	1.0E-04
	95.00	9.42	4.08	0.30	2.0E-04	1.0E-04
	100.00	9.63	3.87	0.29	2.0E-04	1.0E-04
	105.00	9.85	3.65	0.27	2.0E-04	9.9E-05
	110.00	10.06	3.44	0.25	2.0E-04	9.9E-05
	115.00	10.28	3.22	0.24	2.0E-04	9.9E-05
	120.00	10.48	3.02	0.22	2.0E-04	1.0E-04
					Average	1.33E-04

NOTES:

- 1 - Test procedure used was a falling head test in an open borehole.
- 2 - Hydraulic Conductivity, $K = (d^2 \ln(2mL/D)) / (8L(t_2 - t_1)) \ln(H_1/H_2)$, per Lambe & Whitman, Soil Mechanics, 1969, p. 285, case G: isotropic conditions and L/D not less than 4.
- 3 - H represents the difference between static ground water level and water level in casing.
- 4 - Average calculated over straight line portion of plot above (bold values in table).

VARIABLE HEAD PERMEABILITY TEST

Perm. Tests
Hudson, MA
LGCI Project: 1836

LGCI Rep.: T. Sinnott
Calculated by: T. Sinnott
Checked by: AML

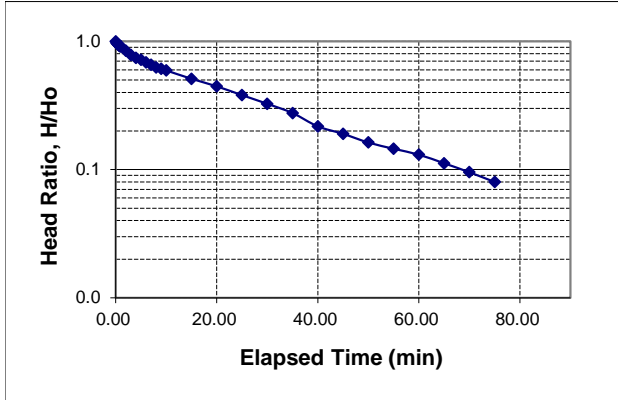
Date: 06/28/17 Boring No. : B-24
Date: 06/29/17 Test No. : #1
Date: 08/15/18 Page 1 of 1

STANDPIPE/RISER DETAILS

Casing inner diam, d, inches: 4.0
Casing length, feet: 15.0
Casing stick up length, feet
(above ground surface) : 3.0
Initial Water Depth
(below top of casing): 15.0

TEST INTERVAL DETAILS

Depth to bottom, feet
(below ground surface): 14.0
Depth to top, feet
(below ground surface): 12.0
Length, L, feet: 2.0
Hole diameter, D, inches: 5.00



Material at 12 ft to 14 ft
test interval: Poorly Graded SAND (SP), fine to medium, 0-5% fines
m = 1 i.e., isotropic material

TIME (hr:min:sec)	ELAPSED TIME (min)	DEPTH TO WATER FROM TOP OF CASING (ft)	HEAD H (feet)	HEAD RATIO H/Ho	K (ft/min)	K (cm/sec)
	0.00	0.00	15.00	1.00		
	0.17	0.42	14.58	0.97	2.6E-03	1.3E-03
	0.33	0.67	14.33	0.96	2.2E-03	1.1E-03
	0.50	0.83	14.17	0.94	1.8E-03	9.1E-04
	0.67	1.08	13.92	0.93	1.8E-03	8.9E-04
	0.83	1.25	13.75	0.92	1.6E-03	8.4E-04
	1.00	1.33	13.67	0.91	1.5E-03	7.4E-04
	2.00	2.35	12.65	0.84	1.3E-03	6.8E-04
	3.00	3.24	11.76	0.78	1.3E-03	6.5E-04
	4.00	3.84	11.16	0.74	1.2E-03	5.9E-04
	5.00	4.22	10.78	0.72	1.0E-03	5.3E-04
	6.00	4.74	10.26	0.68	9.9E-04	5.1E-04
	7.00	5.16	9.84	0.66	9.5E-04	4.8E-04
	8.00	5.62	9.38	0.63	9.2E-04	4.7E-04
	9.00	5.84	9.16	0.61	8.6E-04	4.4E-04
	10.00	6.10	8.90	0.59	8.2E-04	4.2E-04
	15.00	7.34	7.66	0.51	7.0E-04	3.6E-04
	20.00	8.31	6.69	0.45	6.3E-04	3.2E-04
	25.00	9.29	5.71	0.38	6.1E-04	3.1E-04
	30.00	10.11	4.89	0.33	5.9E-04	3.0E-04
	35.00	10.86	4.14	0.28	5.8E-04	2.9E-04
	40.00	11.74	3.26	0.22	6.0E-04	3.0E-04
	45.00	12.15	2.85	0.19	5.8E-04	2.9E-04
	50.00	12.56	2.44	0.16	5.7E-04	2.9E-04
	55.00	12.82	2.18	0.15	5.5E-04	2.8E-04
	60.00	13.04	1.96	0.13	5.3E-04	2.7E-04
	65.00	13.32	1.68	0.11	5.3E-04	2.7E-04
	70.00	13.57	1.43	0.10	5.3E-04	2.7E-04
	75.00	13.80	1.20	0.08	5.3E-04	2.7E-04
					Average	5.14E-04

NOTES:

- 1 - Test procedure used was a falling head test in an open borehole.
- 2 - Hydraulic Conductivity, $K = (d^2 \ln(2mL/D)) / (8L(t_2 - t_1)) \ln(H_1/H_2)$, per Lambe & Whitman, Soil Mechanics, 1969, p. 285, case G: isotropic conditions and L/D not less than 4.
- 3 - H represents the difference between static ground water level and water level in casing.
- 4 - Average calculated over straight line portion of plot above (bold values in table).

APPENDIX E

Soil Boring and Monitoring Well Construction Logs



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	-
DRILLER:	Geosearch
DRILLING DATE:	6/6/18 (pre-clear) & 6/26/18 (drilling)
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PRB

LOCATION ID:	MP-1
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	15'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Manhole location. Proctor to be collected at bottom.

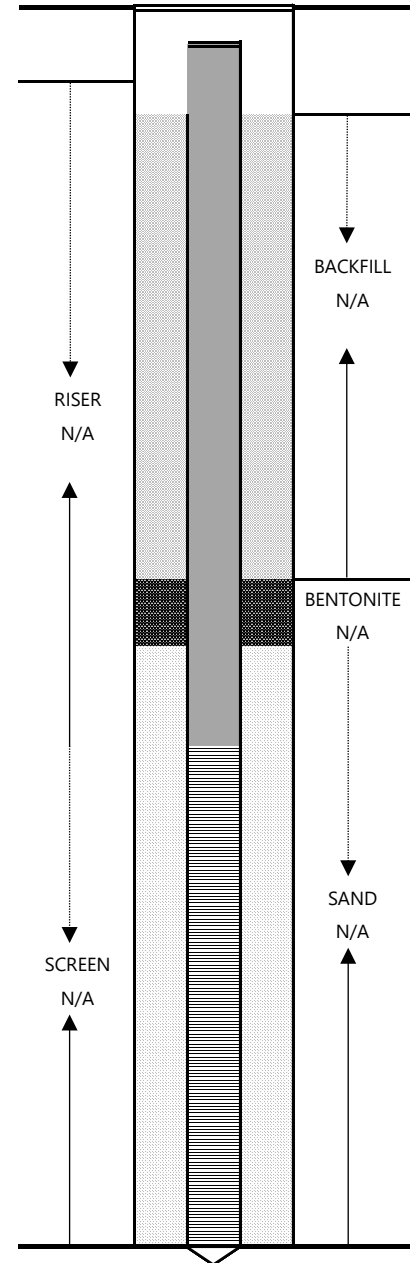
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
-------------	------------	------------------	----------------	-----------

0-2	NA	NA NA NA NA	NA	50.0
2-4	NA	NA NA NA NA	NA	21.3
4-6	NA	NA NA NA NA	NA	18.8
6-8	VOCs	4 5 33 48	17	0.0

SOIL DESCRIPTION

Surface - gravel. Dark brown, medium grained sand, with sub-rounded gravel, low density, low plasticity, dry, no odor. Organics.
Orange/brown, medium grained sand, with little sub-angular rocks, low density, high plasticity, dry, no odor. Some organics.
Orange/brown, medium grained sand, with little sub-angular rocks, low density, high plasticity, dry, no odor. Organics.
Brown, fine grained sand, some angular pebbles, trace sub-angular cobbles, high density, medium plasticity, dry, no odor. White crushed rock from 14-17".

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY grained SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY grained SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/18 (pre-clear) & 6/7/18 (drilling)
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID:	MP-3
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	Yes

NOTES/SKETCH:
Intermediate proctor and thermal sample also collected 5-6'.

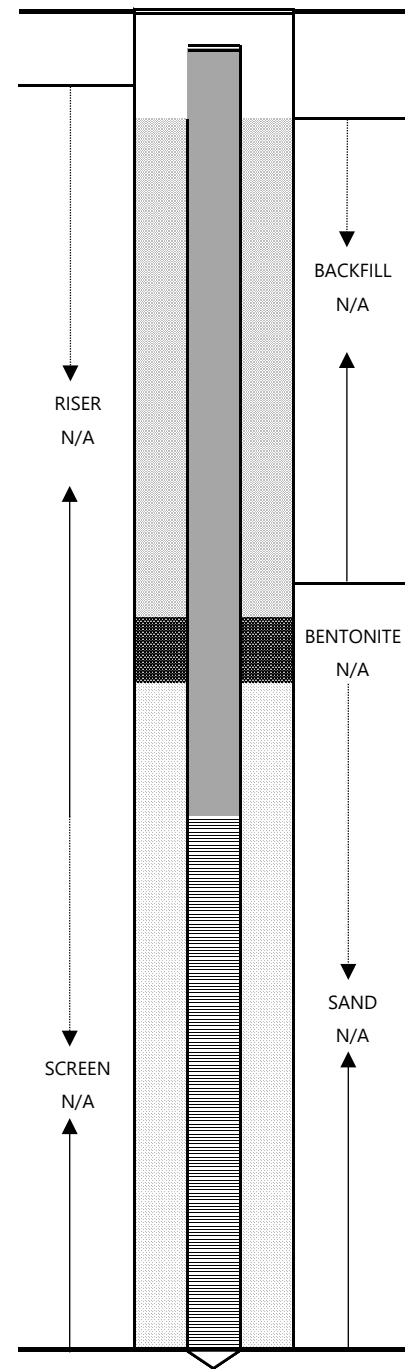
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
-------------	------------	------------------	----------------	-----------

0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-6	VOCs	NA NA NA NA	NA	0.0
6-8	NA	50 @ 1" NA NA NA	1/1	0.0
8-10	NA	50 @ 0" NA NA NA	0/0	0.0

SOIL DESCRIPTION

Asphalt from 0-6". Medium-coarse grained sand, some sub-rounded rocks, low density, low plasticity, dry, no odor.
Asphalt from 0-6". Medium-coarse grained sand and sub-rounded rocks, low density, low plasticity, dry, no odor.
Asphalt from 0-6". Medium-coarse grained sand and sub-rounded rocks, low density, low plasticity, dry, no odor. Coal slag.
White/orange/pink crushed rock.
Auger refusal. 6/8/18 switch to 4" casing and roller bit.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

- | | |
|--|---|
| 1) PRIMARY grained SIZE
(BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY) | 6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) |
| 2) SECONDARY grained SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) | 7) COLOR (GREY, BROWN, etc.) |
| 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) | 8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.) |
| 4) MOISTURE (WET, MOIST, DRY) | 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) |
| 5) DENSITY (LOOSE, MEDIUM DENSE, HARD) | 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.) |



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	7 feet
LOGGED BY:	PEC

LOCATION ID:	MP-4
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	15'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Manhole. Thermal and proctor collected at bottom.

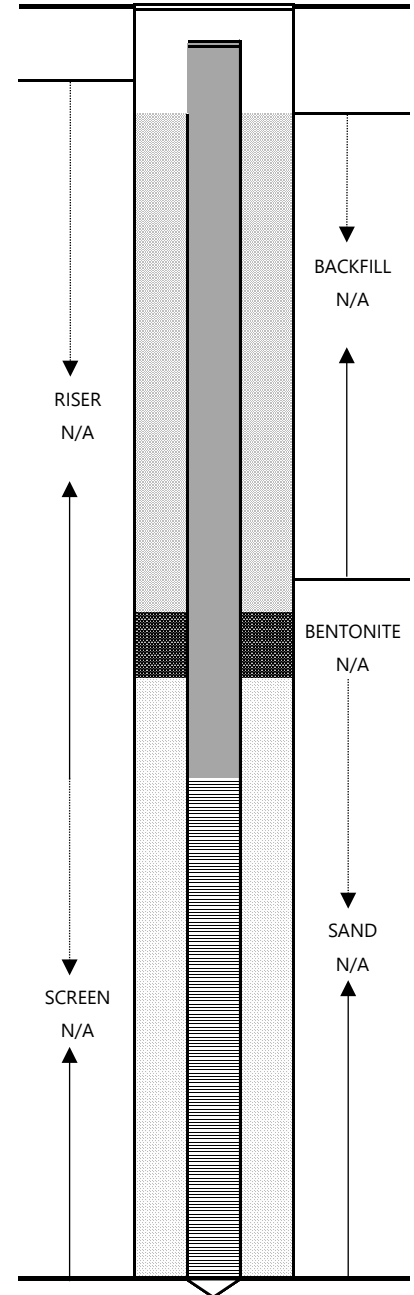
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-6	NA	NA NA NA NA	NA	0.0
6-8	VOC	0 2 2 2	5/24	50.2

SOIL DESCRIPTION

Asphalt from 0-6". Dark brown, medium grained sand with trace sub-angular pebbles, low density, low plasticity, dry, no odor.
Dark brown, coarse-medium grained sand with trace sub-angular pebbles and little sub-rounded rocks, low density, low plasticity, dry, no odor.
Same as MP-4 (2-4')
Light brown, coarse grained sand, low density, low plasticity, dry, no odor.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID:	MP-6
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate thermal and proctor at 5-6'.

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

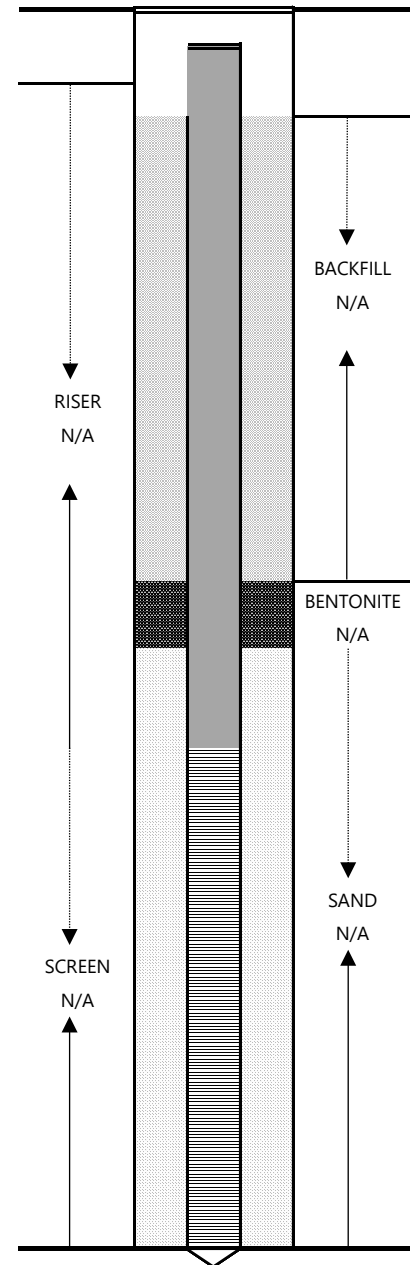
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-6	NA	NA NA NA NA	NA	0.0
6-8	VOC	15 8 11 ?	19/24	0.0

Asphalt from 0-6". Orangish brown, medium grained sand with some sub-angular pebbles and rocks, low density, low plasticity, dry, no odor.

Asphalt from 0-6". Orangish brown, medium grained sand with sub-angular pebbles and rocks, low density, low plasticity, dry, no odor.

Same as MP-6 (2-4').

Orange/brown, medium grained sand with some sub-angular pebbles and crushed rock, low density, low plasticity, dry, no odor.



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	Between 6 and 7 feet
LOGGED BY:	PEC

LOCATION ID:	MP-9
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	15'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Manhole. Thermal and proctor at bottom.

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-5	VOC	NA NA NA NA	NA	0.0
5-7	NA	WOH WOH 1 2	4/24	0.2
7-9	NA	12 15 23 20	18/24	0.1

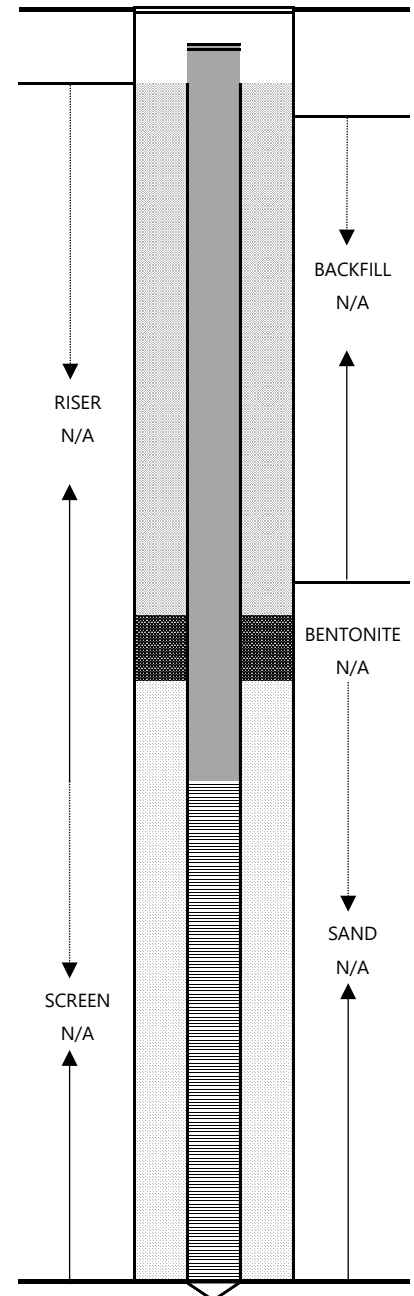
Asphalt from 0-6". Dark brown, medium grained sand with some sub-rounded pebbles, low density, low plasticity, dry, no odor.

Same as MP-9 (0-2')

Orange, medium grained sand with sub-rounded rocks, low density, low plasticity, wet, no odor.

Same as MP-9 (4-6')

Same as MP-9 (4-6')



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID:	MP-10
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate termal and proctor collected.

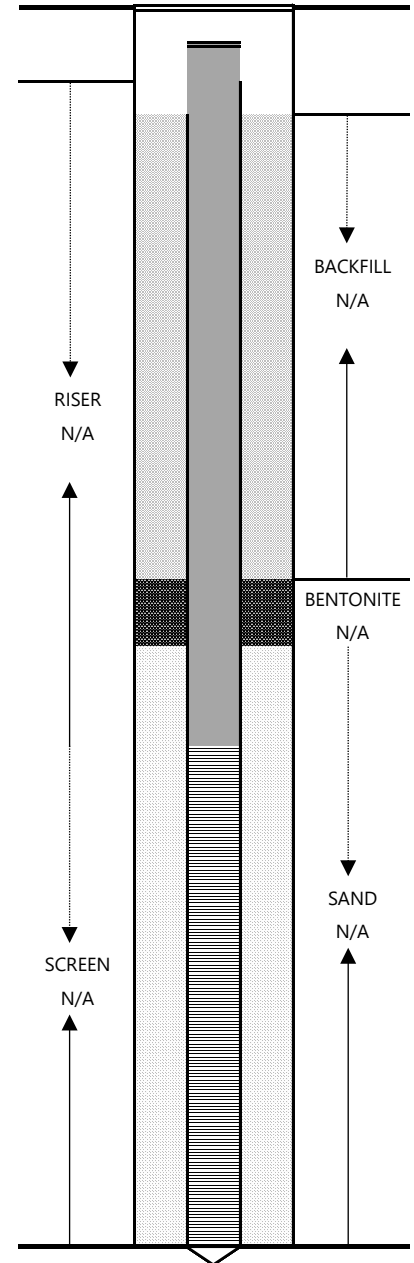
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	NA NA NA NA	NA	22.0
2-4	VOC	NA NA NA NA	NA	56.9
4-6	NA	NA NA NA NA	NA	11.4
6-8	NA	? ? ? ?	?	0.1

SOIL DESCRIPTION

Asphalt from 0-6". Light brown, fine-medium grained sand, low density, medium plasticity, dry, no odor.
Same as MP-10 (0-2').
Asphalt from 0-6". Light brown, fine-medium grained sand, low density, medium plasticity, wet at 6', no odor.
See Geotech log for soil characteristics, recovery, and blow count. End of boring at 8'.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID: MP-11	
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	15'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Manhole - collect bucket at 15' bsg.

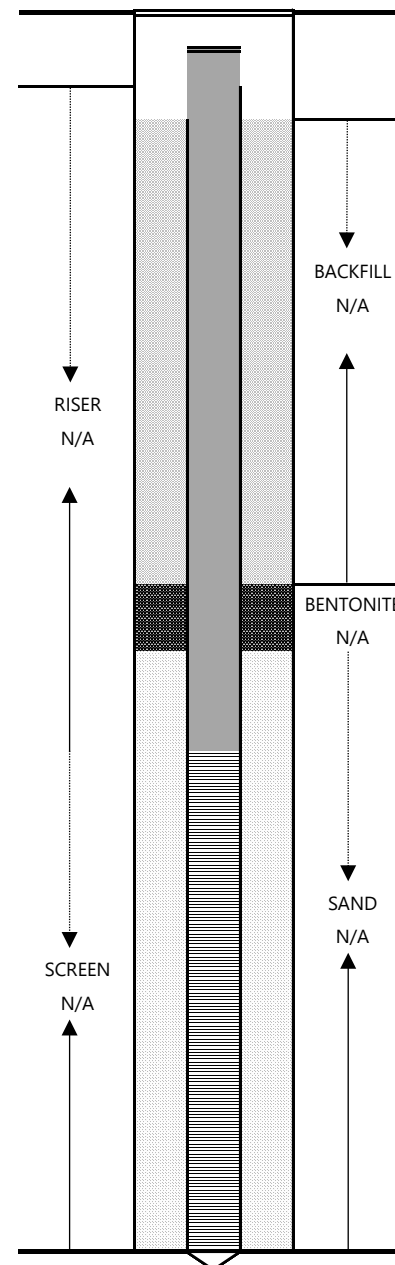
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-6	VOC	NA NA NA NA	NA	0.0
6-8	NA	2 4 3 2	17/24	0.0

SOIL DESCRIPTION

Asphalt from 0-6". Dark brown, medium-coarse grained sand with some sub-rounded pebbles and rocks, low density, low plasticity.
Same as MP-11 (0-2').
Light brown/grey, medium-fine grained sand, medium density, medium plasticity, wet, no odor.
Grey, fine grained sand and silt, trace reddish bedding, wet from 6-7'. Light brown/reddish, fine grained sand, wet from 7-8'.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/15/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	MP-15
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate 5-6' thermal and proctor collected.

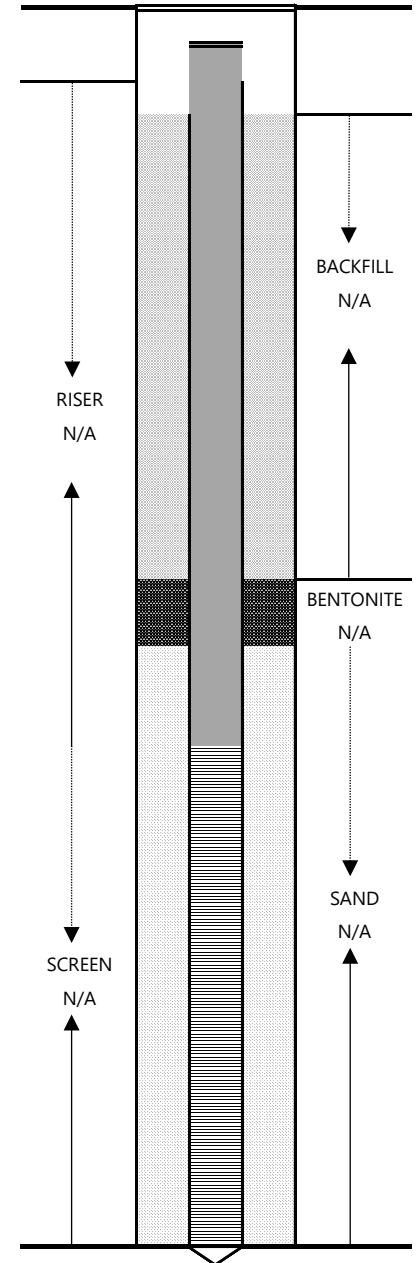
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	6 5 15 35 @ 4"	14/22	0.1
2-4	NA	10 50 @ 1" NA NA	0/7	0.0
4-6	VOCs	5 3 3 6	9/24	0.1
6-8	NA	20 21 11 10	11/24	0.1

SOIL DESCRIPTION

Light brown, medium grained sand with some sub-angular pebbles and crushed rock at ~2' bsg, low density, low plasticity, dry, no odor.
Large boulder at ~2' bsg. Drilled through rock to 4' bsg.
Brown, medium grained sand with little sun-angular rocks, low density, low plasticity, dry, no odor.
Light brown, medium-fine grained sand with trace sub-angular rocks, low density, low plasticity, dry, no odor.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/27/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID: MP-17	
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	15'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

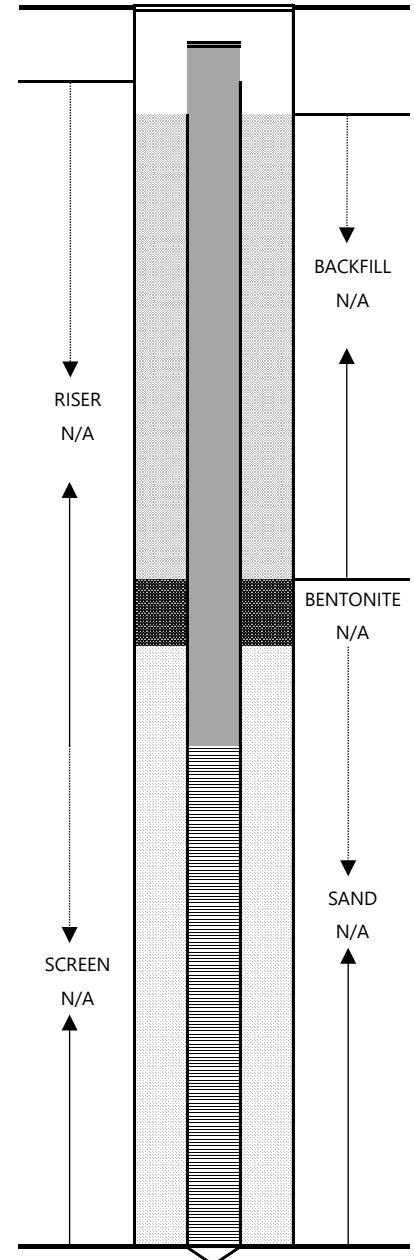
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	12 4 5 7	6/24	0.0
2-4	NA	25 11 5 5	23/24	0.0
4-6	NA	5 6 6 7	3/24	0.0
6-8	VOCs	5 6 3 7	14/24	0.0

Crushed gravel from 0-3". Brown, medium grained sand with trace sub-angular pebbles, low density, low plasticity, dry, no odor.

Dark brown, medium-coarse grained sand with trace sub-angular rocks, high density, low plasticity, dry underlain by light brown, medium-fine grained sand, low density, low plasticity, dry, no odor.

Light brown, medium-fine grained sand, low density, low plasticity, dry, no odor.

Light brown, medium-fine grained sand, low density, low plasticity, dry, no odor from 0-7", underlain by rounded pebbles and some coarse sand, low density, low plasticity, wet, no odor.



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/27/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID: MP-19	
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate thermal and proctor from 5-6'.
OHM until 8'.

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

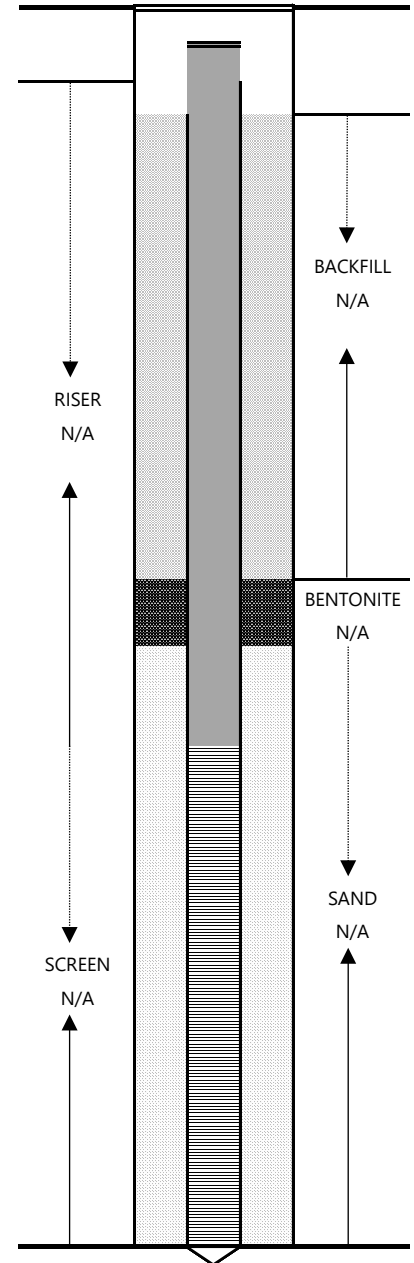
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	5 8 9 7	19/24	0.0
2-4	NA	8 4 3 2	20/24	0.0
4-6	VOCs	3 2 4 6	7/24	0.0
6-8	NA	6 5 3 3	9/24	0.0

Brown, medium-coarse grained sand, with trace sub-angular rocks, low density, low plasticity, dry, no odor.

Light brown, medium-fine grained sand, low density, low plasticity, dry no odor from 0-3". Brown, medium grained organic sand, low density, low plasticity, dry, no odor.

Same as MP-19 (2-4').

Light brown, coarse grained sand with sub-rounded pebbles, low density, low plasticity, dry, no odor.



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/7/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:		MP-20
ESTIMATED DEPTH TO WATER (ft.):	NA	
TOTAL BORING DEPTH (ft.):	NA	
BOTTOM OF WELL DEPTH (ft.):	NA	
PVC DIAMETER, SLOT:	NA	
RISER LENGTH (ft.):	NA	
SCREEN LENGTH (ft.):	NA	
FINISH:	10'	
REFUSAL ENCOUNTERED:	No	

<u>NOTES/SKETCH:</u>
Intermediate thermal and proctor from 5-6'. OHM until 8'.

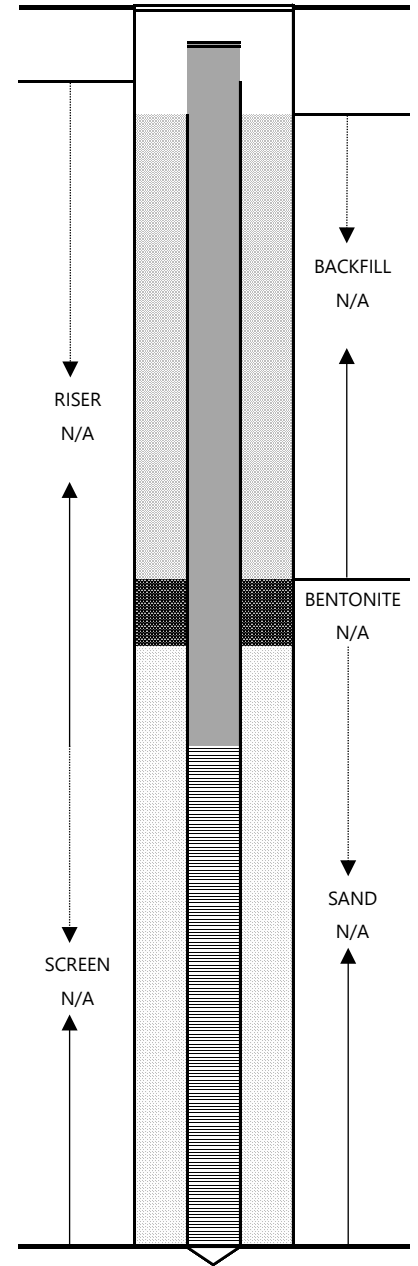
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	5 8 9 7	22/24	19.0
2-4	NA	8 4 3 2	17/24	18.0
4-6	VOCs	3 2 4 6	16/24	6.0
6-8	NA	6 5 3 3	20/24	13.0

Fine silty dark brown light brown sand , low density, low plasticity, dry, no odor
Fine silty dark brown light brown sand , low density, low plasticity, dry, no odor
Fine silty dark brown light brown sand , low density, low plasticity, moist, no odor
Fine silty dark brown light brown sand , low density, low plasticity, moist, no odor



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/7/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	MP-22
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate thermal and proctor from 5-6'.
OHM until 8'.

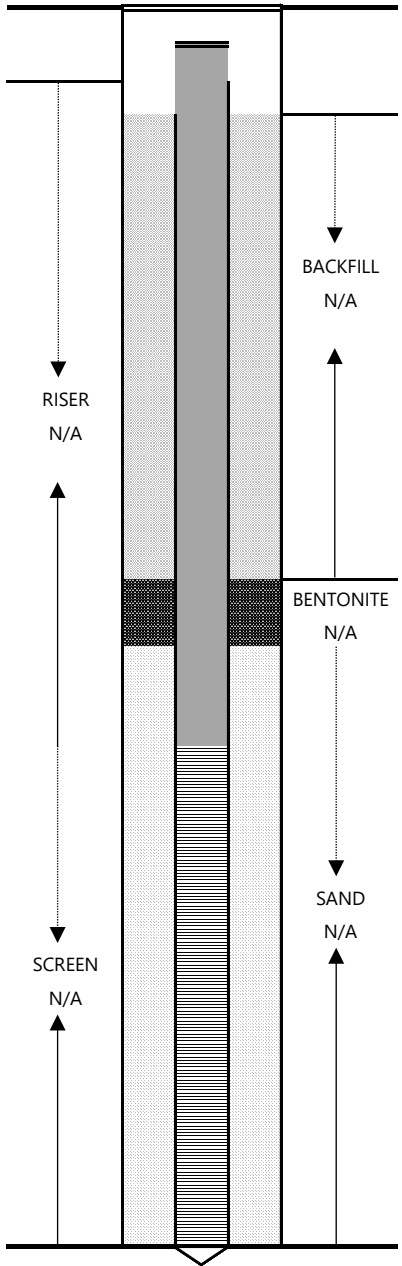
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	5 8 9 7	22/24	3.1
2-4	NA	8 4 3 2	17/24	0.0
4-6	VOCs	3 2 4 6	16/24	0.0
6-8	NA	6 5 3 3	20/24	0.0

SOIL DESCRIPTION

Fine to medium light brown sand with trace coarse sand, low density, low plasticity, dry, no odor
Fine to coarse light brown sand with some gravel, low density, low plasticity, dry, no odor
Fine to coarse light brown sand with some gravel, low density, low plasticity, dry, no odor
Fine to coarse light brown sand with some gravel, low density, low plasticity, wet, no odor

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/7/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	MP-23
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
Intermediate thermal and proctor from 5-6'. OHM until 8'.

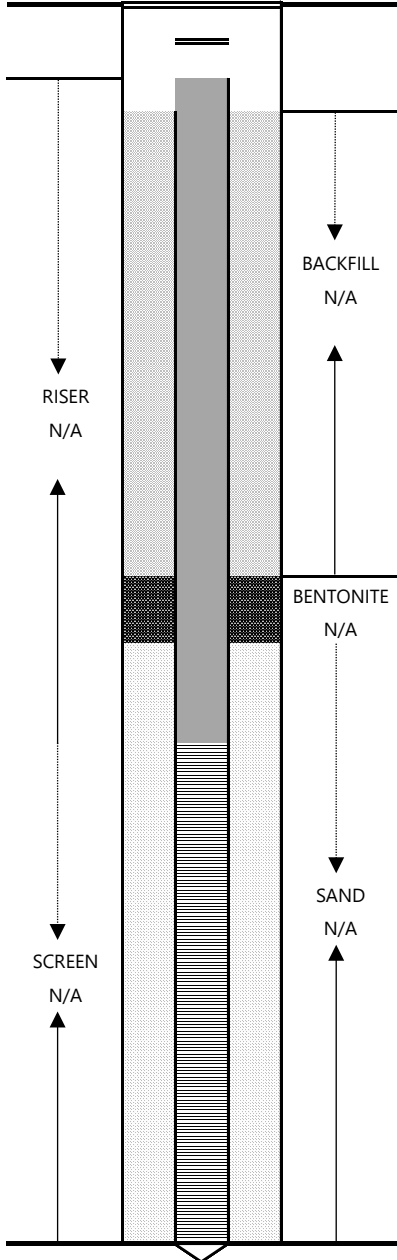
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	5 8 9 7	22/24	37.1
2-4	NA	8 4 3 2	17/24	0.0
4-6	VOCs	3 2 4 6	16/24	0.6
6-8	NA	6 5 3 3	20/24	0.0

SOIL DESCRIPTION

Fine to medium brown sand with trace silt, low density, low plasticity, dry, no odor
Fine to medium brown sand with trace silt, low density, low plasticity, moist, no odor
Fine to medium brown sand with trace silt, low density, low plasticity, moist, no odor
Fine to medium brown sand with trace silt, low density, low plasticity, wet, no odor

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	MP-24
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	10 feet
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	10'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
End of boring at 10' bgs. See geotechnical log for missing blow counts.

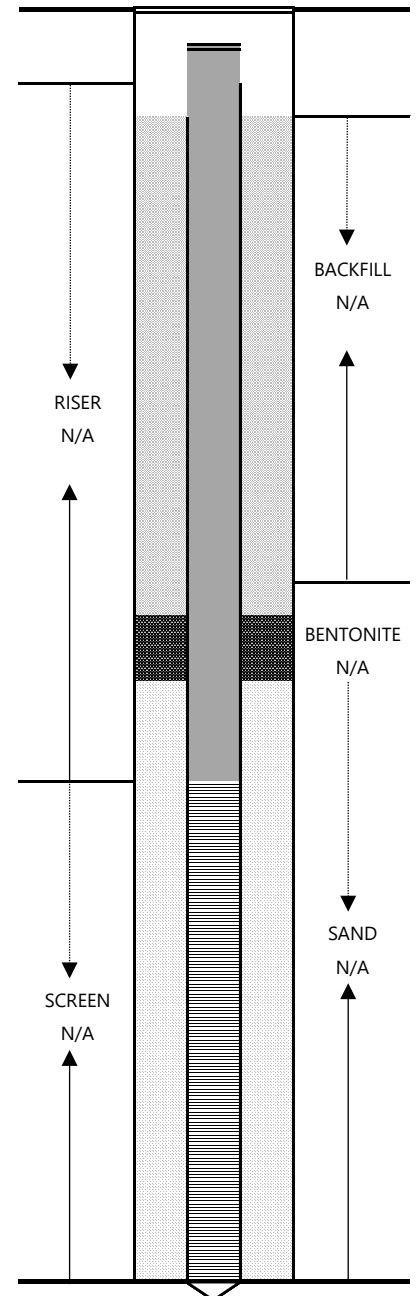
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	2 1 1 2	24/24	0.0
2-4	NA	2 2 5 22	20/24	0.0
4-6	NA	? ? ? ?	18/24	0.0
6-8	VOC	? ? ? ?	5/24	0.0

SOIL DESCRIPTION

Grey, dry topsoil from 0-6". Orange, fine-medium grained sand, medium density, dry from 6-24".
Orange and tan, fine-medium grained sand, medium density, dry.
Tan, fine-medium grained sand, medium density, dry from 0-9". Coarse, sandy gravel, SA from 9-18".
Sandy, coarse gravel, SA.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

- | | |
|--|--|
| 1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)
2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)
4) MOISTURE (WET, MOIST, DRY)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD) | 6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
7) COLOR (GREY, BROWN, etc.)
8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)
9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.) |
|--|--|



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID: SB-1	
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected.

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

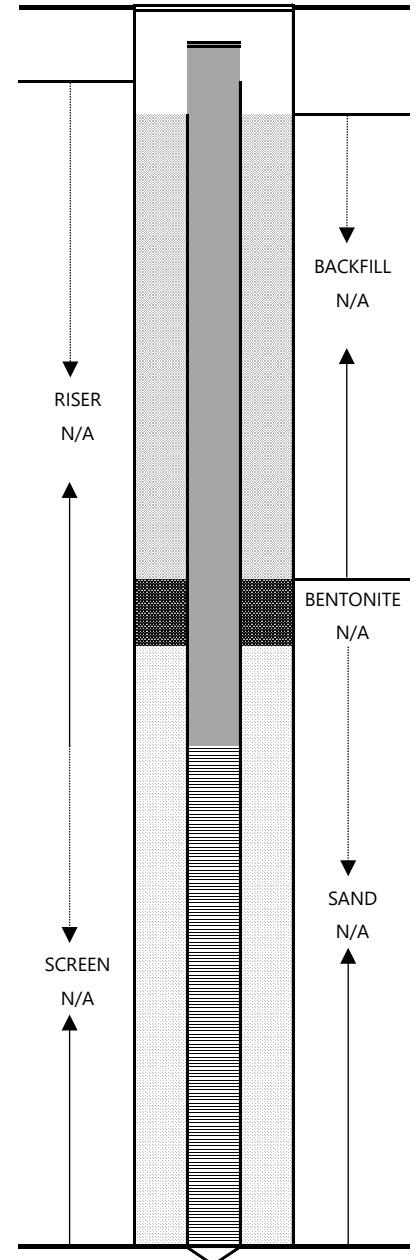
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	NA NA NA NA	NA	0.0
2-4	NA	NA NA NA NA	NA	0.0
4-6	NA	NA NA NA NA	NA	0.0
6-8	VOC	8 12 10 11	12/24	80.2

Brown/orangish, medium grained sand with little sub-rounded pebbles, low density, low plasticity, dry, no odor.

Light brown, coarse grained sand with little sub-rounded pebbles, low density, low plasticity, dry, no odor.

Same as SB-1 (2-4').

Brown, medium grained sand with trace sub-angular rocks, underlain by orange sand and grey medium-fine grained sand, high density, medium plasticity, dry, no odor.



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID:	SB-2
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

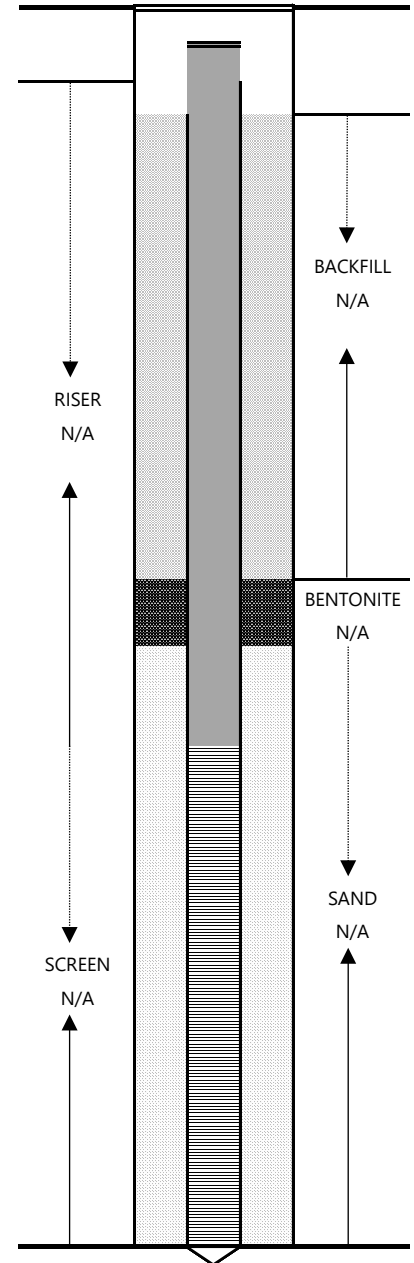
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	NA NA NA NA	NA	0.2
2-4	NA	NA NA NA NA	NA	0.0
4-6	NA	NA NA NA NA	NA	0.0
6-8	VOC	NA NA NA NA	NA	2.0

SOIL DESCRIPTION

Light brown, fine grained sand, low density, medium plasticity, dry, no odor.
Same as SB-2 (0-2').
Same as SB-2 (0-2').
Same as SB-2 (0-2').

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	6 feet
LOGGED BY:	PEC

LOCATION ID:	SB-3
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

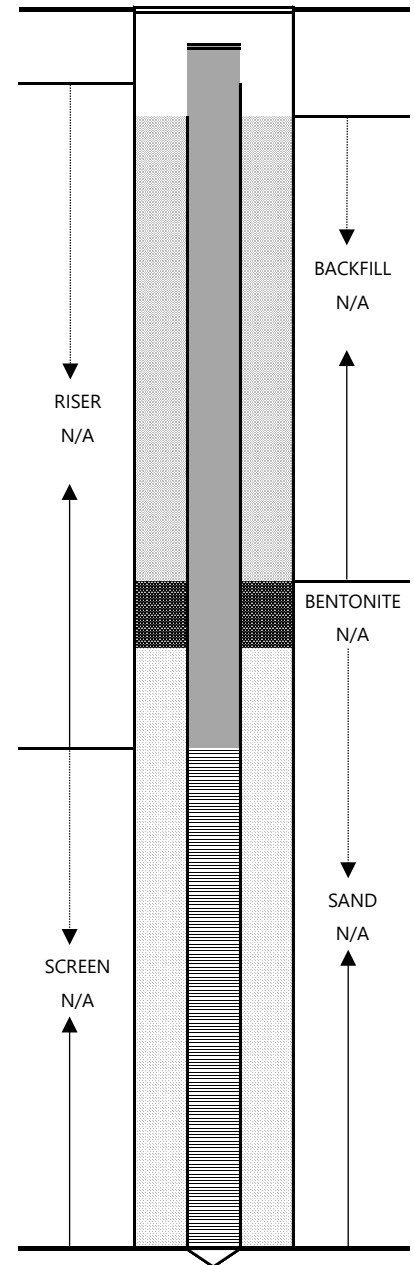
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	NA NA NA NA	NA	14.6
2-4	NA	NA NA NA NA	NA	15.3
4-6	VOC	NA NA NA NA	NA	28.5
6-8	NA	NA NA NA NA	NA	8.1

Asphalt from 0-6". Dark brown, medium-coarse grained sand with sub-rounded gravel, low density, low plasticity, dry, no odor.

Same as SB-3 (0-2').

Dark brown, coarse grained sand and sub-rounded pebbles, low density, low plasticity, wet, no odor.

Same as SB-3 (4-6').



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/21/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB/MW-5
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	24 feet
BOTTOM OF WELL DEPTH (ft.):	24 feet
PVC DIAMETER, SLOT:	2 inches
RISER LENGTH (ft.):	14 feet
SCREEN LENGTH (ft.):	10 feet
FINISH:	24 feet
REFUSAL ENCOUNTERED:	NA

<u>NOTES/SKETCH:</u>
OHM sample collected 0-8' bsg. Well installed.

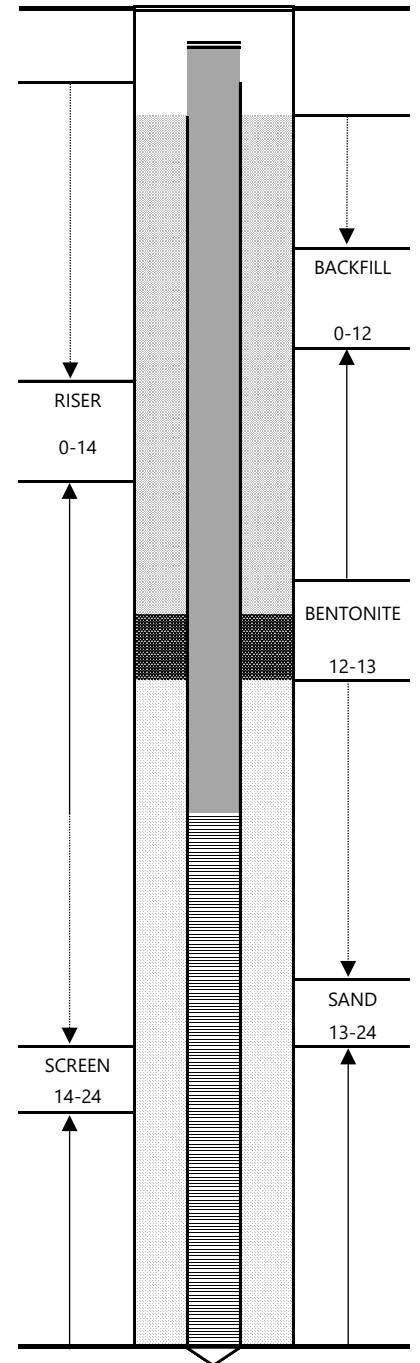
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	4 5 7 9	2/24	0.0
2-4	VOC	9 8 13 11	18/24	0.0
4-6	NA	5 8 10 12	12/24	0.0
6-8	NA	7 11 12 13	15/24	0.0
15-17	NA	2 3 5 8	0/24	0.0
17-19		5 6 6 8	?	0.0

SOIL DESCRIPTION

Surface leaf litter. Dark brown, coarse grained sand with rounded rocks, low density, low plasticity, dry, fill material.
Light brown, coarse grained sand with some rounded rocks to gravel, low density, low plasticity, dry, no odor.
Same as SB/MW-5 (2-4').
Same as SB/MW-5 (2-4'). End of OHM composite sampling
No recovery.
Dark brown, coarse grained sand with rounded rocks, low density, low plasticity, wet, no odor.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/25/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB-14
ESTIMATED DEPTH TO WATER (ft.):	~6 feet bsg
TOTAL BORING DEPTH (ft.):	8 feet
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

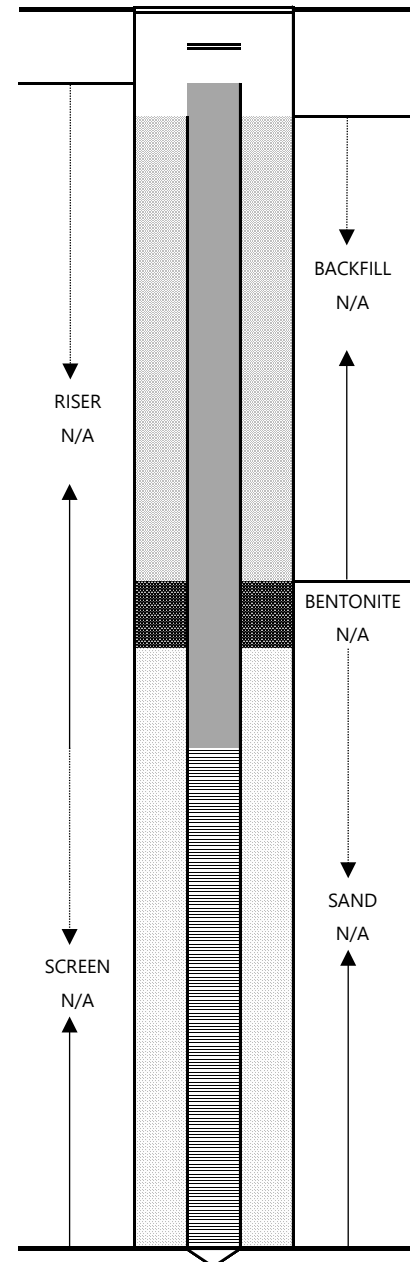
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	8 5 5 4	13/24	0.0
2-4	NA	6 5 4 4	11/24	0.0
4-6	VOC	6 6 10 7	5/24	0.0
6-8	NA	7 5 6 7	14/24	0.0

SOIL DESCRIPTION

Railroad tie/gravel fill from 0-10". Underlain by light brown, coarse grained sand with some sub-rounded pebbles, low density, low plasticity, dry, no odor.
Light brown, coarse-medium grained sand with some pebbles and trace sub-rounded rocks, low density, low plasticity, dry, no odor.
Light brown, coarse grained sand with silt and some rounded pebbles, low density, low plasticity, wet at ~6', no odor.
Coarse-fine grained sand with some rounded pebbles and little sub-rounded rocks, low density, low plasticity, wet, no odor.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/27/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB-15
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

<u>NOTES/SKETCH:</u>
No thermal or proctor collected

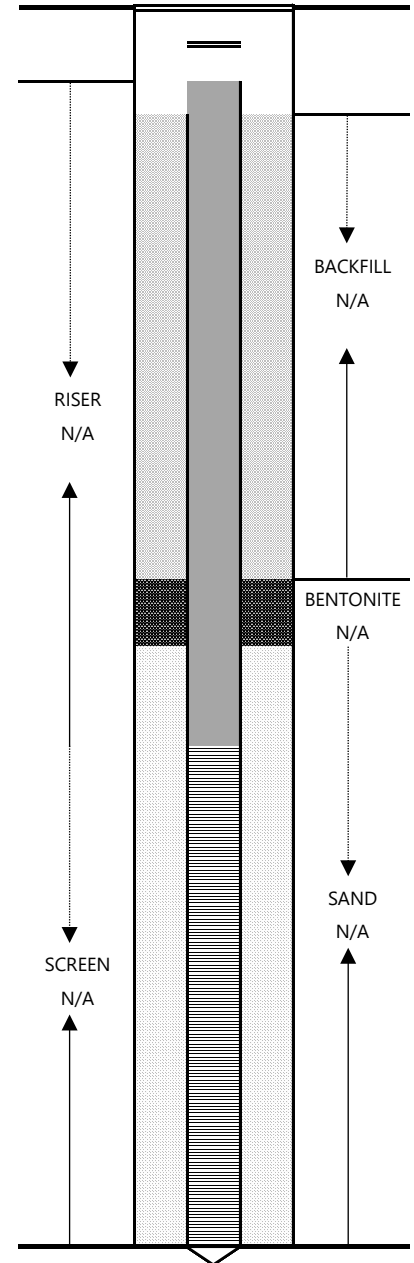
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	7 9 5 5	10/24	0.0
2-4	NA	5 5 10 10	10/24	0.0
4-6	NA	12 14 8 9	8/24	0.0
6-8	VOC	9 11 13 13	13/24	0.0

SOIL DESCRIPTION

Light brown/orange, coarse grained sand with trace sub-rounded rocks, low density, low plasticity, dry, no odor.
Same as SB-15 (0-2').
Brown, coarse grained sand and sub-rounded gravel, low density, low plasticity, dry, no odor.
Light brown, medium-coarse grained sand with little sub-rounded pebbles underlain by rounded gravel/rocks @ 7' and wet.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/1/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	MTB

LOCATION ID:	SB-16
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

<u>NOTES/SKETCH:</u>
No thermal or proctor collected

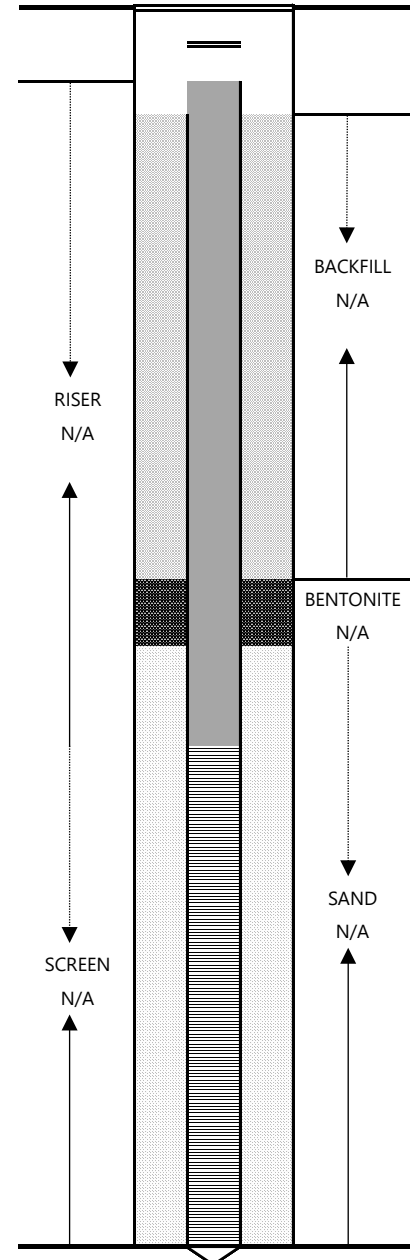
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
-------------	------------	------------------	----------------	-----------

0-2	NA	3 1 1 1	20/24	0.0
2-4	VOC	2 2 2 1	20/24	0.0
4-6	NA	4 3 4 4	20/24	0.0
6-8	NA	8 12 12 12	22/24	0.0

SOIL DESCRIPTION

Brown to light brown, fine-medium grained sand, little silt, dry, trace organics.
Light brown and tan, fine-medium grained sand, little brown silt, dry, trace organics.
Light brown to tan, fine-medium grained sand, trace reddish bedding, trace black staining, dry.
Tan, fine-medium grained sand, trace sub-rounded gravel. Grey, fine-medium grained sand, wet last 6".

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	SB-17
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	8 feet
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

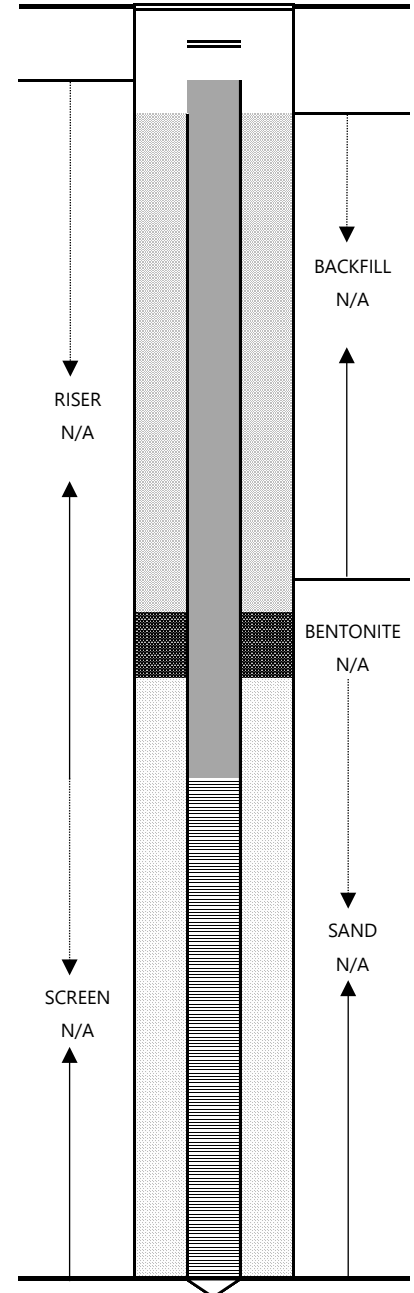
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	1 4 2 2	21/24	0.1
2-4	VOC	2 2 2 2	17/24	1.0
4-6	NA	4 3 4 6	16/24	0.1
6-8	NA	6 9 10 10	15/24	0.3

SOIL DESCRIPTION

Top soil from 0-3". Orange, fine-medium grained sand, medium density, dry from 3-21".
Tan and orange, fine-medium grained sand, medium density, dry.
Same as SB-17 (2-4').
Tan, medium-coarse grained sand, medium density, dry.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/1/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	MTB

LOCATION ID:	SB-18
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

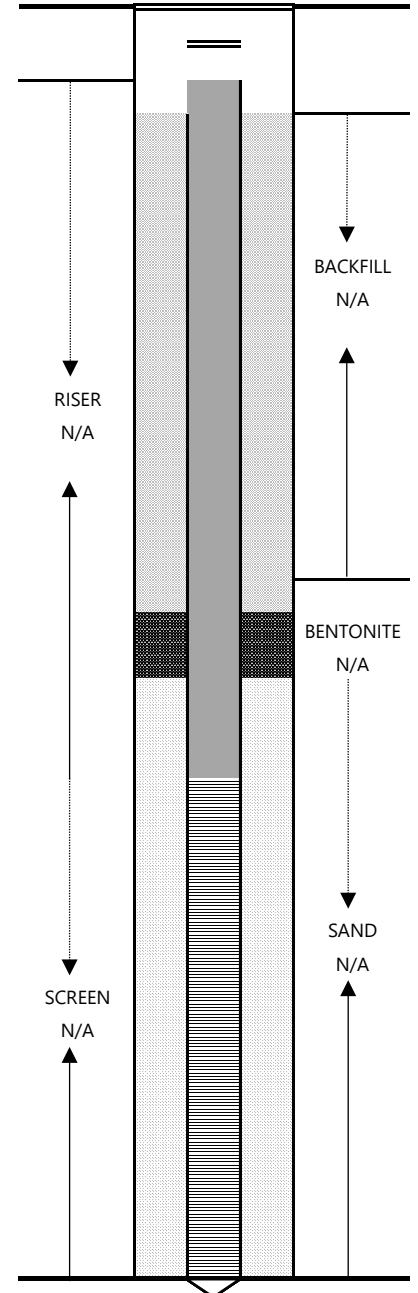
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	3 5 5 4	24/24	0.0
2-4	NA	6 6 6 6	24/24	0.0
4-6	NA	5 8 7 27	24/24	0.0
6-8	VOC	5 8 18 16	7/24	0.1

SOIL DESCRIPTION

Topsoil from 0-1". Tan, fine grained sand, some reddish bedding, dry.
Tan, fine grained sand, some reddish/tan sand, little reddish bedding, dry.
Tan, fine grained sand and reddish bedding, trace dark brown organics, dry.
Fine-coarse grained sand, trace reddish bedding, trace sub-rounded pebbles, dry.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID: SB-19	
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	8 feet
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

<u>NOTES/SKETCH:</u>
No thermal or proctor collected

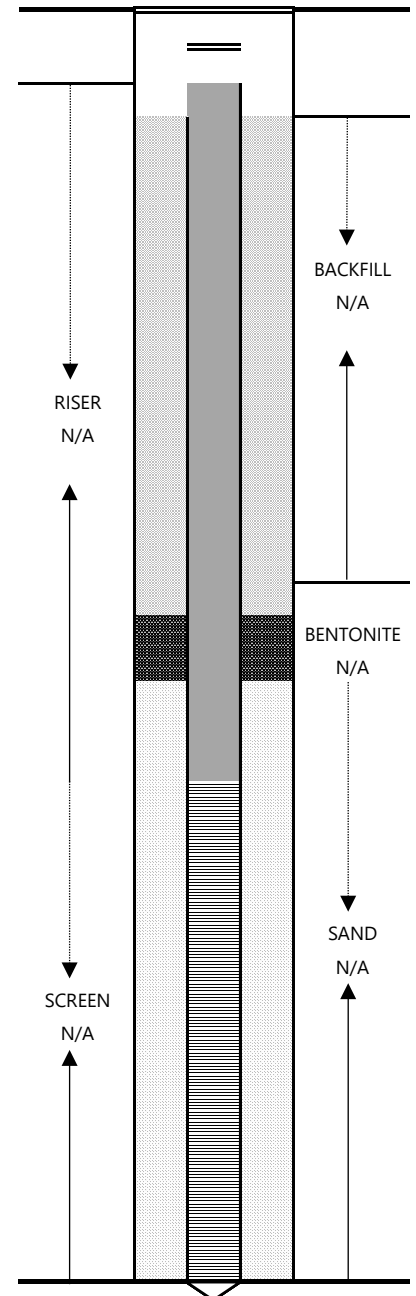
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	VOC	3	18/24	0.0
		4		
		5		
		5		
2-4	NA	2	10/24	0.0
		3		
		5		
4-6	NA	8	19/24	0.0
		7		
		7		
		8		
6-8	NA	6	19/24	0.0
		8		
		7		

Dark brown organics for 5". Brown, medium grained sand with trace sub-rounded pebbles, low density, low plasticity, dry, no odor.
Light brown, medium-coarse grained sand with trace sub-rounded rocks, low density, low plasticity, dry, no odor.
Same as SB-19 (2-4').
Light brown, medium-coarse grained sand with trace sub-rounded rocks, low density, low plasticity, dry, no odor from 0-7". Brown, very coarse grained sand and rounded pebbles, low density, low plasticity, dry, no odor.



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/29/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB-20
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:	
No thermal or proctor collected	

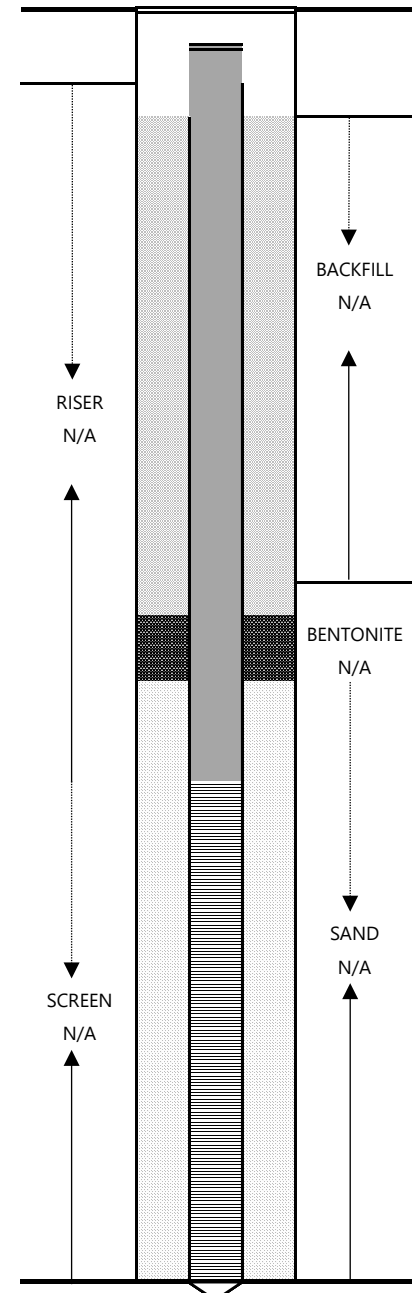
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	2 3 3 3	6/24	0.0
2-4	VOC	4 4 5 6	12/24	0.0
4-6	NA	5 3 5 7	14/24	0.0
6-8	NA	7 7 8 6	14/24	0.0

Medium-fine grained sand, low density, low plasticity, dry, no odor.
Light brown, medium-fine grained sand with trace sub-angular gravel, low density, low plasticity, dry, no odor.
Light brown, fine-medium grained sand with trace sub-angular gravel, low density, low plasticity, dry, no odor.
Same as SB-20 (4-6').



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY) 2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%) 3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC) 4) MOISTURE (WET, MOIST, DRY) 5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED) 7) COLOR (GREY, BROWN, etc.) 8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.) 9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC) 10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/29/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB/MW-21
ESTIMATED DEPTH TO WATER (ft.):	6 feet
TOTAL BORING DEPTH (ft.):	13 feet
BOTTOM OF WELL DEPTH (ft.):	13 feet
PVC DIAMETER, SLOT:	2 inches
RISER LENGTH (ft.):	3 feet
SCREEN LENGTH (ft.):	10 feet
FINISH:	13 feet
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
OHM sample collected 0-8' bsg. Well installed.

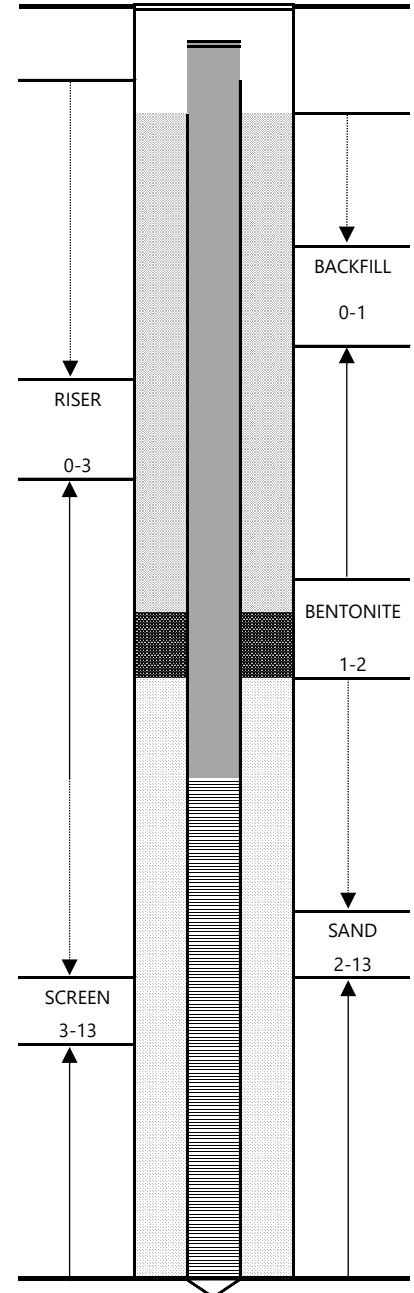
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	3	8/24	0.0
		4		
		6		
		4		
2-4	VOC	8	16/24	0.0
		6		
		5		
		4		
4-6	NA	4	5/24	0.0
		5		
		7		
		9		
6-8	NA	9	20/24	0.0
		2		
		1		
		1		

SOIL DESCRIPTION

Light brown, medium-fine grained sand with some sub-angular pebbles and trace sub-angular rocks, low density, low plasticity, dry, no odor.
Light brown, medium-fine grained sand with trace sub-angular rocks, low density, low plasticity, dry, no odor.
Light brown, medium-fine grained sand with trace sub-angular rocks, low density, low plasticity, damp at 6', no odor.
Medium-fine grained sand with some sub-rounded gravel, low density, low plasticity, wet, slight odor.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/5/2018
DRILLING METHOD:	Tripod (direct push)
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	SB/MW-20
ESTIMATED DEPTH TO WATER (ft.):	6'
TOTAL BORING DEPTH (ft.):	14'
BOTTOM OF WELL DEPTH (ft.):	13'
PVC DIAMETER, SLOT:	1"
RISER LENGTH (ft.):	3'
SCREEN LENGTH (ft.):	10'
FINISH:	Road Box
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

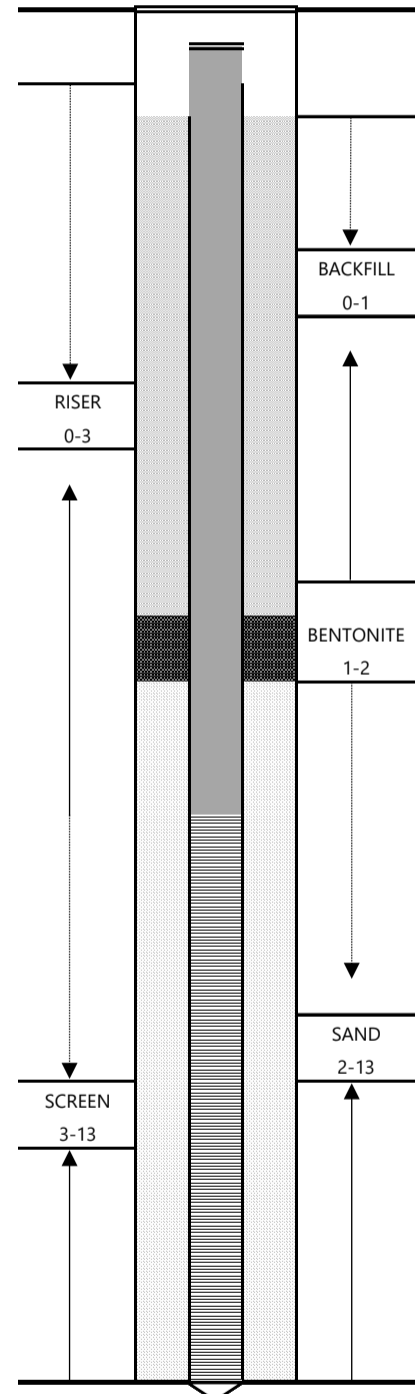
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	5 6 3 2	16	0.2
2-4	NA	2 3 1 3	16	0.0
4-6	NA	4 4 4 3	18	0.1
6-8	NA	7 7 12 13	18	0.0

SOIL DESCRIPTION

4" dark brown topsoil underlain by 12" of fine to medium dark brown sand, low density, low plasticity, dry, no odor
Fine to medium grained tan sand, medium density, low plasticity, dry, no odor
Fine to coarse grained sand with trace gravel, medium density, low plasticity, moist, no odor
Fine tan sand with fine gravel, high density, medium plasticity, wet, no odor

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/4/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	SAMM

LOCATION ID:	SB-43
ESTIMATED DEPTH TO WATER (ft.):	~9 feet
TOTAL BORING DEPTH (ft.):	16 feet
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	5	24/24	0.0
		6		
2-4	NA	3	17/24	6.2
		2		
4-6	NA	4	18/24	0.8
		3		
6-8	NA	7	20/24	0.1
		12		
		13		

SOIL DESCRIPTION

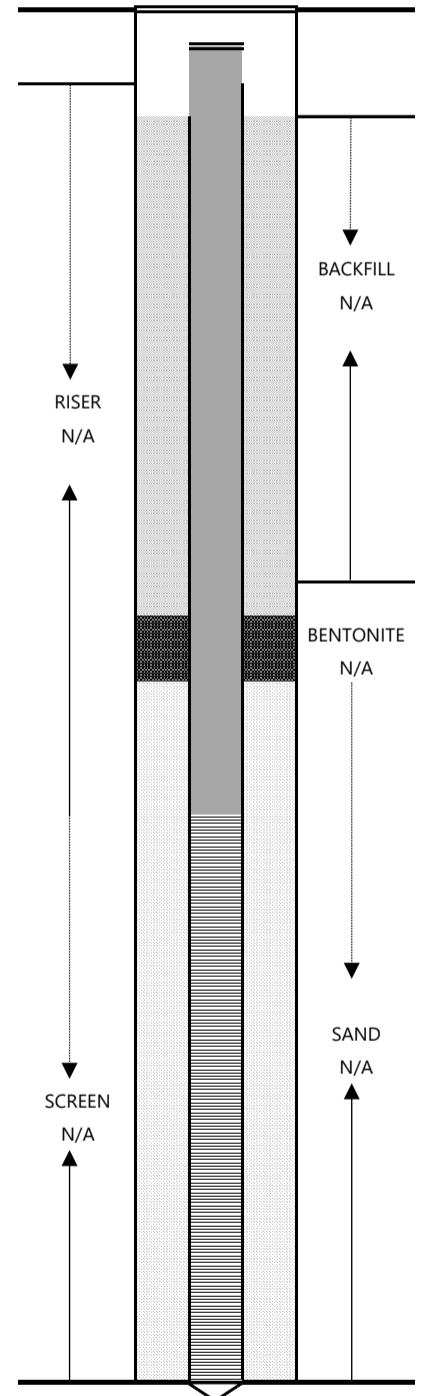
Top soil from 0-4". Orange, fine-medium grained sand, trace gravel, hard, dry from 4-24".

Tan, fine-medium grained sand, medium density, dry.

Same as SB-41 (2-4').

Light tan, fine-medium grained sand, medium density, dry.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

- | | |
|--|--|
| 1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)
2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)
4) MOISTURE (WET, MOIST, DRY)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD) | 6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
7) COLOR (GREY, BROWN, etc.)
8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)
9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.) |
|--|--|



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/27/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	PEC

LOCATION ID:	SB-44
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	No

NOTES/SKETCH:
No thermal or proctor collected

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

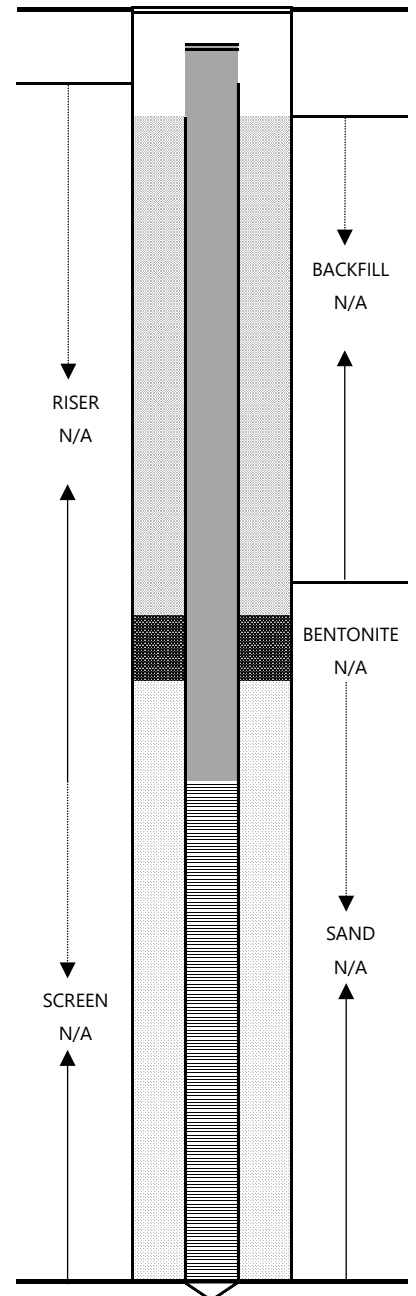
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
0-2	NA	7 9 ? 25	18/24	0.0
2-4	NA	17 12 12 14	8/24	0.0
4-6	NA	12 7 10 9	12/24	0.0
6-8	VOCs	10 9 7 6	21/24	0.0

Light brown, medium-coarse grained sand with little sub-angular pebbles, low density, low plasticity, dry, no odor.

Dark brown/black, ashy material from 0-1", underlain by medium-fine grained sand from 1-3", underlain by coarse sand and gravel with some sub-rounded rocks, low density, low plasticity, dry.

Coarse sand and gravel with some sub-rounded rocks, low density, low plasticity, dry.

Fine-medium grained sand, low density, high plasticity, damp, no odor.



- SOIL DESCRIPTIONS:**
- | | |
|---|---|
| <p>1) PRIMARY GRAIN SIZE
(BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)</p> <p>2) SECONDARY GRAIN SIZE
(TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)</p> <p>3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)</p> <p>4) MOISTURE (WET, MOIST, DRY)</p> <p>5) DENSITY (LOOSE, MEDIUM DENSE, HARD)</p> | <p>6) ANGULARITY
(V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)</p> <p>7) COLOR (GREY, BROWN, etc.)</p> <p>8) STRUCTURES, STAINING, ALTERATION
(LAMINATED, BEDDED, IRON STAINED, ETC.)</p> <p>9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)</p> <p>10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)</p> |
|---|---|



CLIENT:	Eversource
PROJECT:	Transmission Project
PROJECT #:	12970.00
DIGSAFE:	
DRILLER:	Geosearch
DRILLING DATE:	6/1/2018
DRILLING METHOD:	HSA
SAMPLING METHOD:	Continuous
PRE-CLEAR DEPTH:	NA
LOGGED BY:	MTB

LOCATION ID:	SB-45
ESTIMATED DEPTH TO WATER (ft.):	NA
TOTAL BORING DEPTH (ft.):	NA
BOTTOM OF WELL DEPTH (ft.):	NA
PVC DIAMETER, SLOT:	NA
RISER LENGTH (ft.):	NA
SCREEN LENGTH (ft.):	NA
FINISH:	8'
REFUSAL ENCOUNTERED:	NA

<u>NOTES/SKETCH:</u> No thermal or proctor collected

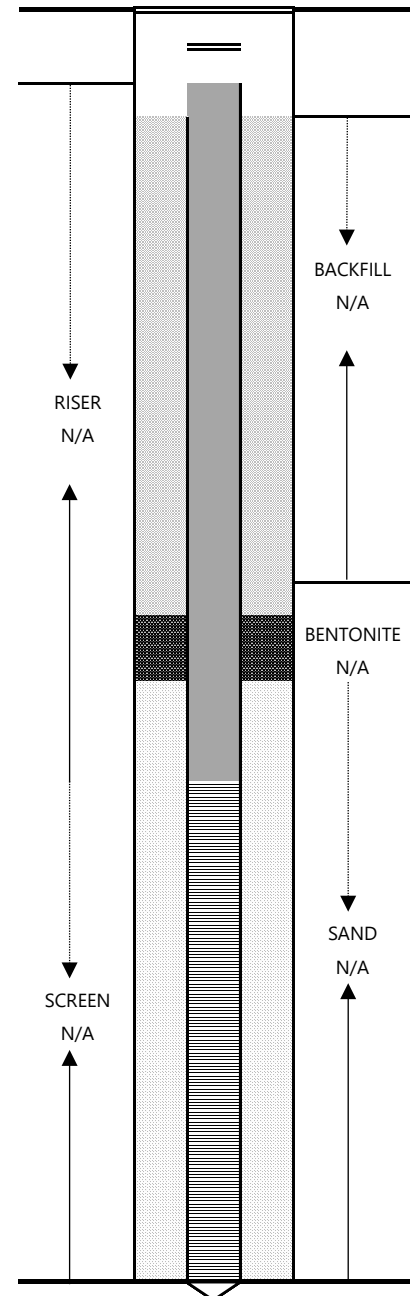
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppm)
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0-2	NA	4 5 6 6	24/24	0.0
2-4	NA	8 8 9 9	24/24	0.0
4-6	VOC	7 7 8 14	19/24	0.0
6-8	NA	10 12 14 14	18/24	0.0

SOIL DESCRIPTION

Topsoil from 0-3". Tan/brown, fine-medium grained sand, trace reddish bedding, trace sub-rounded pebbles, dry.
Tan/white, fine grained sand, trace brownish bedding, dry.
Tan, fine grained sand, little reddish/yellow bedding, trace tan medium grained sand, dry.
Tan, medium grained sand, little reddish bedding, dry.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:

1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE), SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/15/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuous
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: SB41	
ESTIMATED DEPTH TO WATER (ft.):	5'
TOTAL BORING DEPTH (ft.):	8'
SAMPLE COLLECTED?	THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED:	Continuous
TIME OF SAMPLE COLLECTION:	1200
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...)	OHM
FINISH DEPTH:	8'
REFUSAL ENCOUNTERED:	NO

NOTES/SKETCH:
5-6 Thermal and Proctor

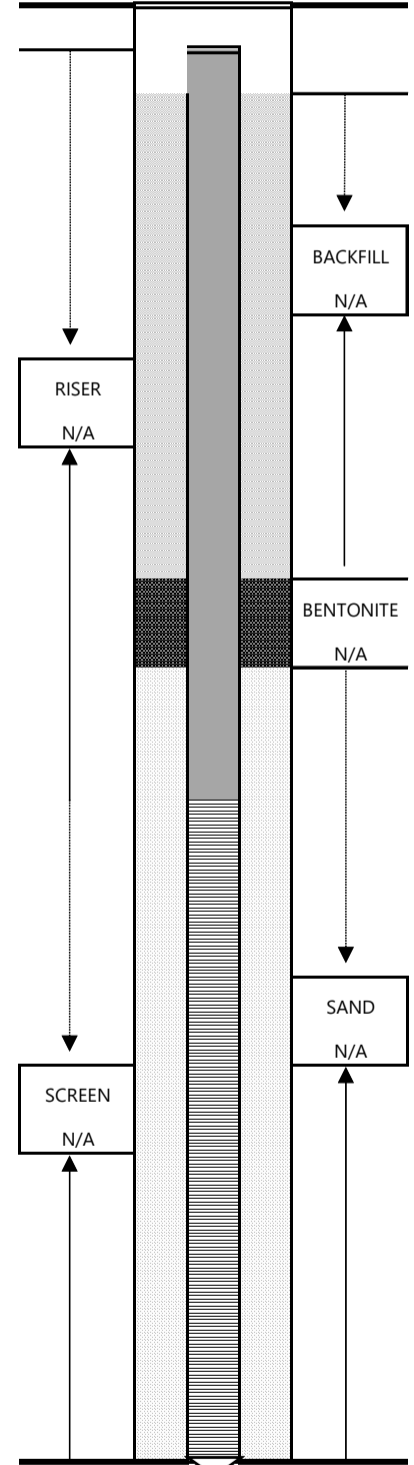
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		1 1 2 4	19	0.0
2-4		2 2 2 2	11	0.0
4-6		1 2 1 1	15	0.0
6-8	VOC	1 1 1 5	11	0.0

6" Forest mat 13" Tan med-coarse sand, loose
Same as above
8" Same as above, wet 5" brown, fine sand, silt, dense, no odor
Brown, fine-medium sand, silt, loose, some gravel, loose



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/15/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuous
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: SB40	
ESTIMATED DEPTH TO WATER (ft.):	6'
TOTAL BORING DEPTH (ft.):	8'
SAMPLE COLLECTED?	THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED:	Continuous
TIME OF SAMPLE COLLECTION:	1000
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...)	OHM
FINISH DEPTH:	8'
REFUSAL ENCOUNTERED:	NO

NOTES/SKETCH:
5-6 Thermal and Proctor

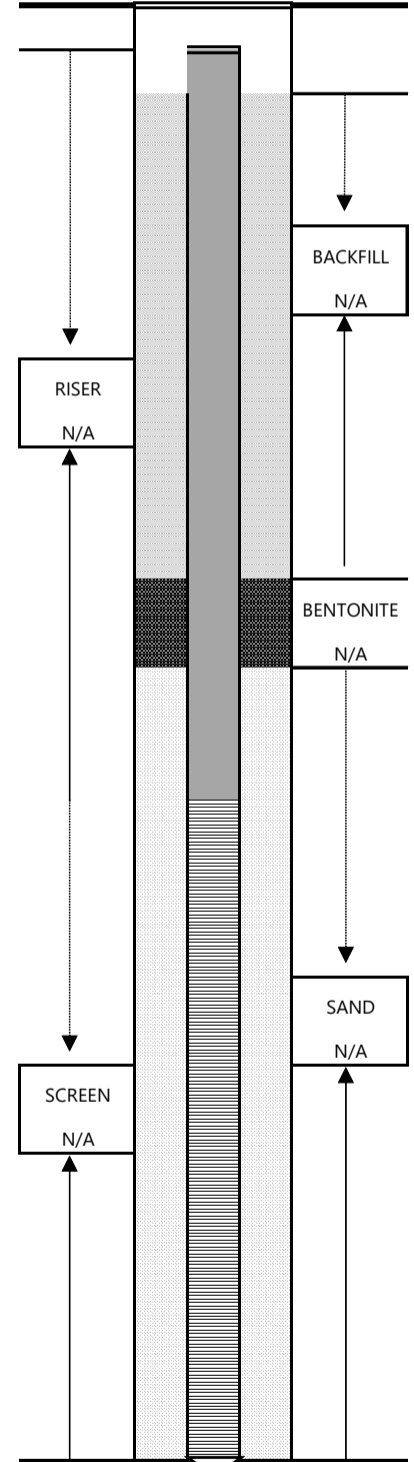
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		1 4 11 25	10	0.0
2-4	VOC	4 11 2 11	12	0.0
4-6		5 4 5 4	13	0.0
6-8		4 6 14 15	21	0.0

1" Forest mat, black 9" medium sand, fine, loose, dry, no odor or staining
Tan fine-medium sand, silt, loose, dry
5" gray, fine-medium sand, silt, loose, wet 5" orange fine-med sand, wet, dense
16" gray-brown, fine-med sand, 1"silt, wet 1" Rock 4" Gray brown, fine-med, sand



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/15/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuous
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: SB48
ESTIMATED DEPTH TO WATER (ft.): 7'
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: Continuous
TIME OF SAMPLE COLLECTION: 0900
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) OHM only
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

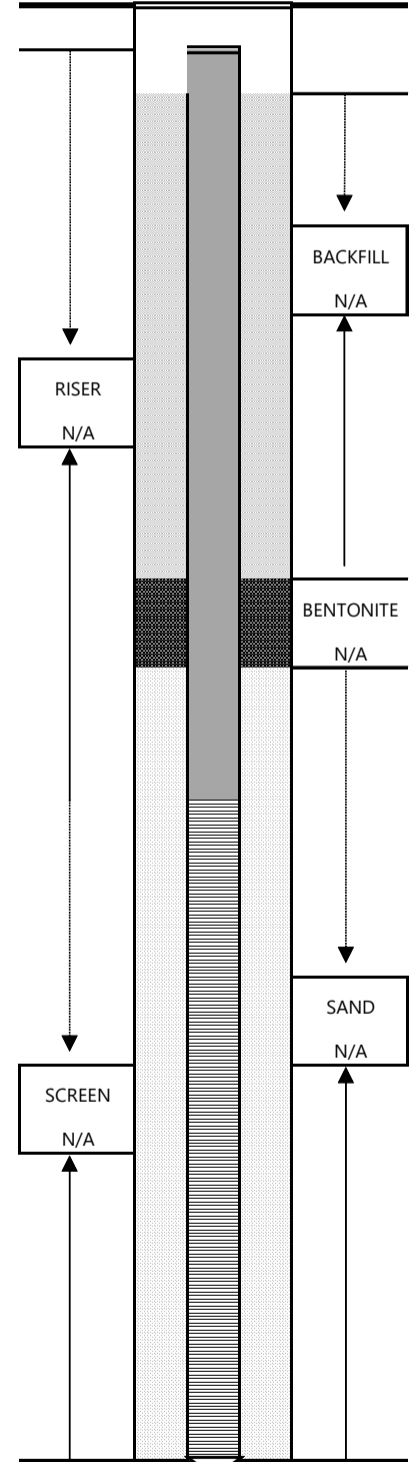
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		7 7 6 4	10	0.0
2-4		4 2 2 3	21	0.0
4-6		1 1 10 11	21	0.0
6-8	VOC	6 12 15 13	13	0.0

2" forest mat, gravel 8" tan loose medium sand, silt, no odor, no stain
12" same as above 9" Dark black fine sand, silty, loose, no odor
13" same as above 8" gray silt, clay, dense
brown fine sand, silt, loose, wet, no odor
End



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSSEARCH
DRILLING DATE: 11/13/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Proctor 5-6'
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: B28
ESTIMATED DEPTH TO WATER (ft.): 6'
TOTAL BORING DEPTH (ft.): 10'
SAMPLE COLLECTED? THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: Continuous
TIME OF SAMPLE COLLECTION: 1300
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

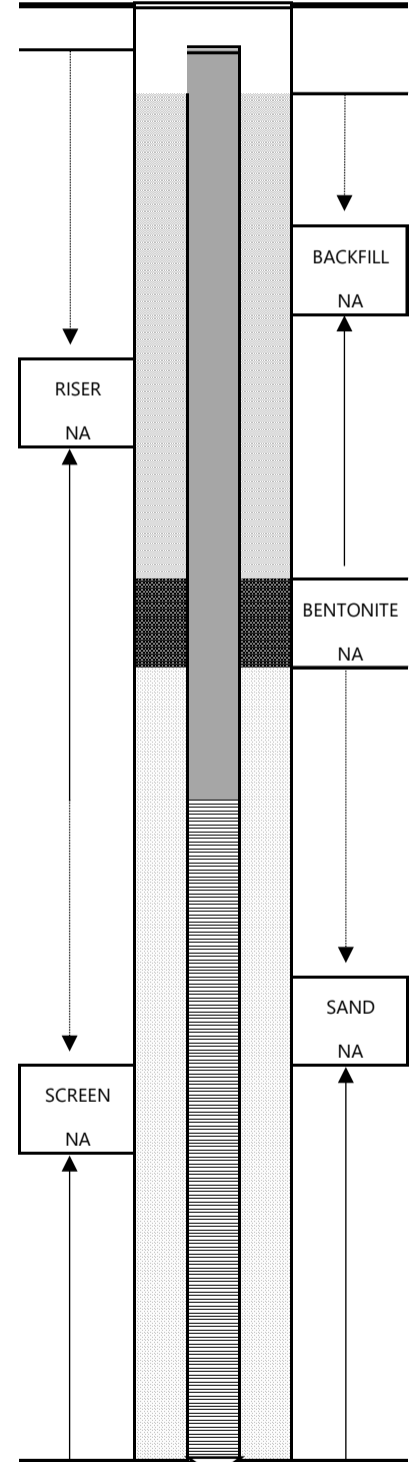
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		3 2 7 2	17	0.0
2-4		19 33 62 59	20	0.0
4-6	VOC	15 50 64 71	21	0.0
6-8		58 61 72 -	6	0.0

Dark brown fine to medium sand with trace gravel, low density, low plasticity, no odor
Light brown fine to medium sand with trace gravel, medium density, low plasticity, dry, no odor
Light brown fine to medium sand with trace gravel, medium density, low plasticity, moist, no odor
Light brown fine to medium sand with trace gravel, medium density, low plasticity, wet, no odor



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSSEARCH
DRILLING DATE: 11/7/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC

LOCATION ID: SB/MW35
ESTIMATED DEPTH TO WATER (ft.):3
TOTAL BORING DEPTH (ft.): 10
SAMPLE COLLECTED?THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8 bsg
TIME OF SAMPLE COLLECTION: 14:50
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) OHM only
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

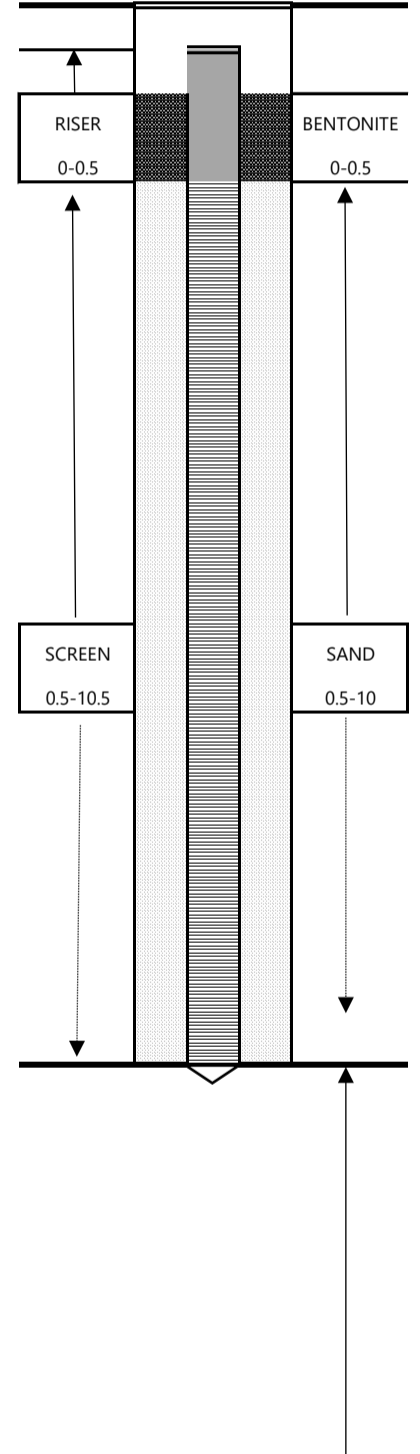
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2	VOC	25 25 25 15	24	0
2-4		12 12 8 7	9	0
4-6		3 10 13 19	19	0
6-8		18 15 20 15	24	0

Dark/black medium-coarse sand w/ angular rocks and coal ash, medium density, low plasticity, dry
Brown medium-fine sand with some rounded gravel, medium density, low plasticity, wet
Light brown fine-medium sand with trace silt, medium density, high plasticity, wet
Light brown fine-medium sand with trace silt, medium density, high plasticity, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/7/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC

LOCATION ID: SB34
ESTIMATED DEPTH TO WATER (ft.):6
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED?THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8 bsg
TIME OF SAMPLE COLLECTION: 14:45
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) OHM only
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

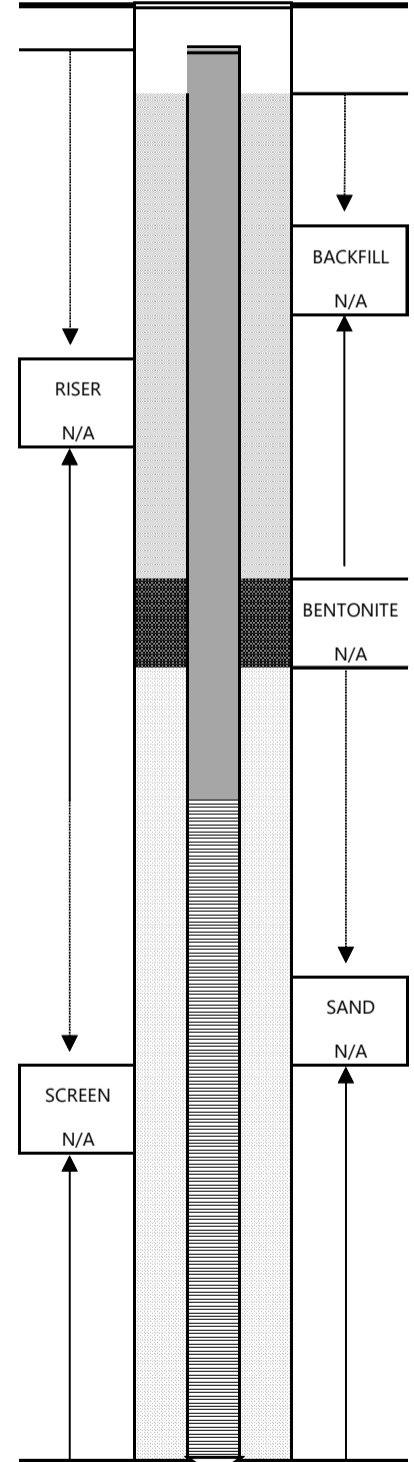
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2	VOC	3 4 3 N/A	24	0
2-4		5 4 4 3	20	0
4-6		4 2 3 4	22	0
6-8		4 5 6 8	17	0

6" Dark brown/black coarse-med sand underlain by medium brown medium fine sand, low density, medium plasticity, dry
Medium-dark brown, medium fine sand with trace sub-rounded rocks, low density, medium plasticity, dry
Medium-dark brown, medium fine sand with trace sub-rounded rocks, low density, high plasticity, damp
Brown fine-medium samd with trace coarse sand and silt, low density, high plasticity, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/7/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC

LOCATION ID: SB36
ESTIMATED DEPTH TO WATER (ft.):6
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED?THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8 bsg
TIME OF SAMPLE COLLECTION: 14:45
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) OHM only
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

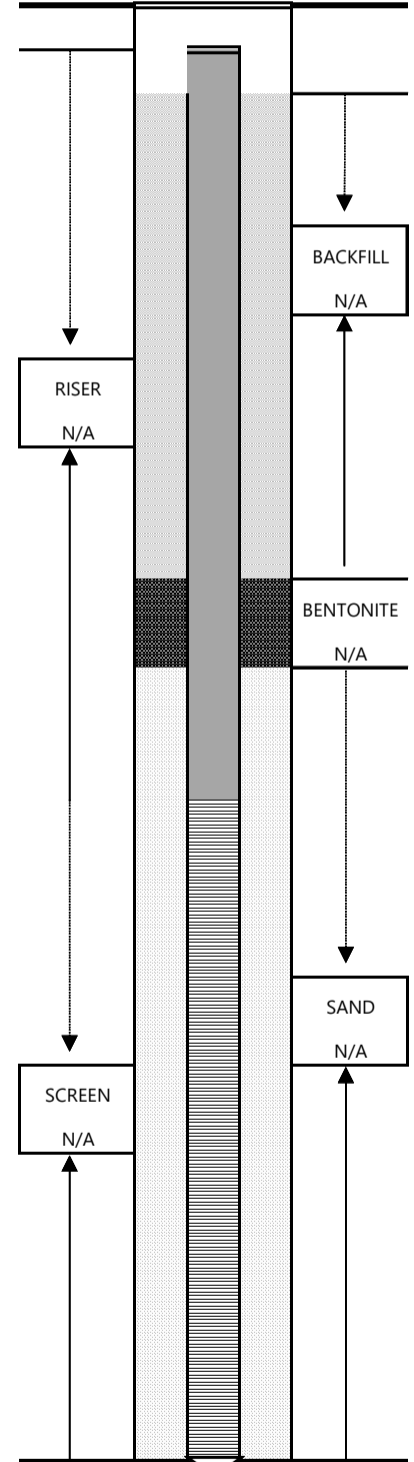
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		7 3 5 7	23	0.0
2-4		7 9 8 8	23	0.0
4-6		4 5 8 9	24	0.0
6-8	VOC	8 8 8 7	20	0.0

3" Dark brown/black medium coarse sand underlain by light brown medium-fine sand with trace sub-rounded gravel, low density, medium plasticity, dry
light brown/gray very fine-fine sand w/ orange streaks, low density, high plasticity, dry
6" fall back, underlain by same material from 2'-4'
Same as above but moist, wet at 8'



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/7/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC

LOCATION ID: SB/MW33
ESTIMATED DEPTH TO WATER (ft.):6
TOTAL BORING DEPTH (ft.): 13'
SAMPLE COLLECTED?THERMAL PROCTOR OHM X Well
DEPTH OF SAMPLE COLLECTED: 0-8 bsg
TIME OF SAMPLE COLLECTION: 14:36
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Well
FINISH DEPTH: 13'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

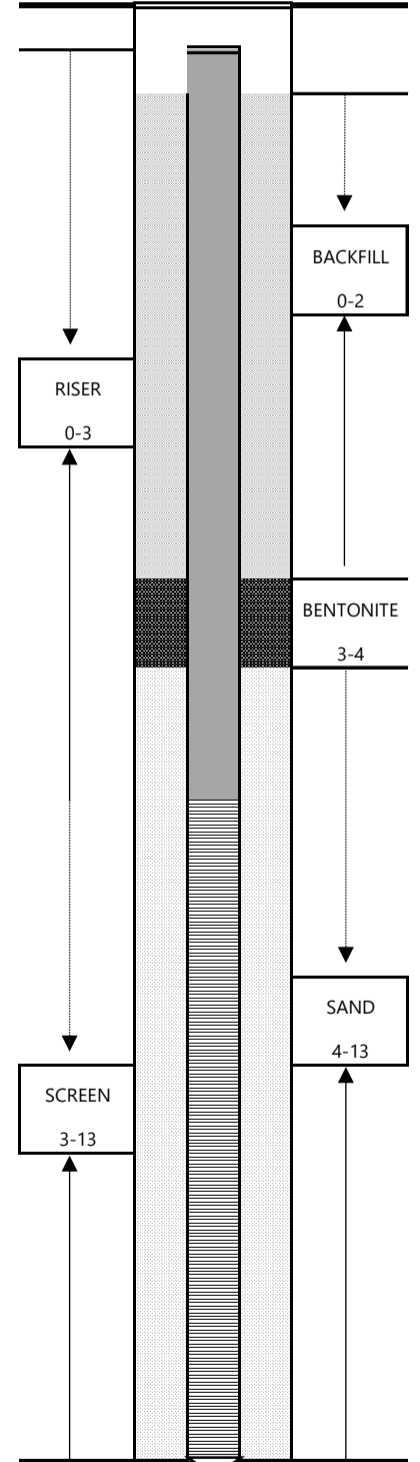
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		1 2 5 6	18	0.0
2-4		8 9 10 10	20	0.0
4-6	VOC	8 10 10 7	10	0.0
6-8		6 6 6 6	11	0.0

4" Dark brown med-coarse sand underlain by light brown finemed sand, low density, low plasticity, dry
light brown w/ orange streaks with trace fine sand, high plasticity, low density, dry
light brown/gray with fine medium sand w/ trace silt and orange streaks ar 6', low density, high plasticity, moist
light brown/gray with very fine-fine sand with trace silt and orange streaks, low density, medium plasticity, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/6/18
DRILLING METHOD: Hollow Stem /
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP35
ESTIMATED DEPTH TO WATER (ft.):7
TOTAL BORING DEPTH (ft.): 15'
SAMPLE COLLECTED?THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 15' (proct
TIME OF SAMPLE COLLECTION:
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...)
FINISH DEPTH:
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

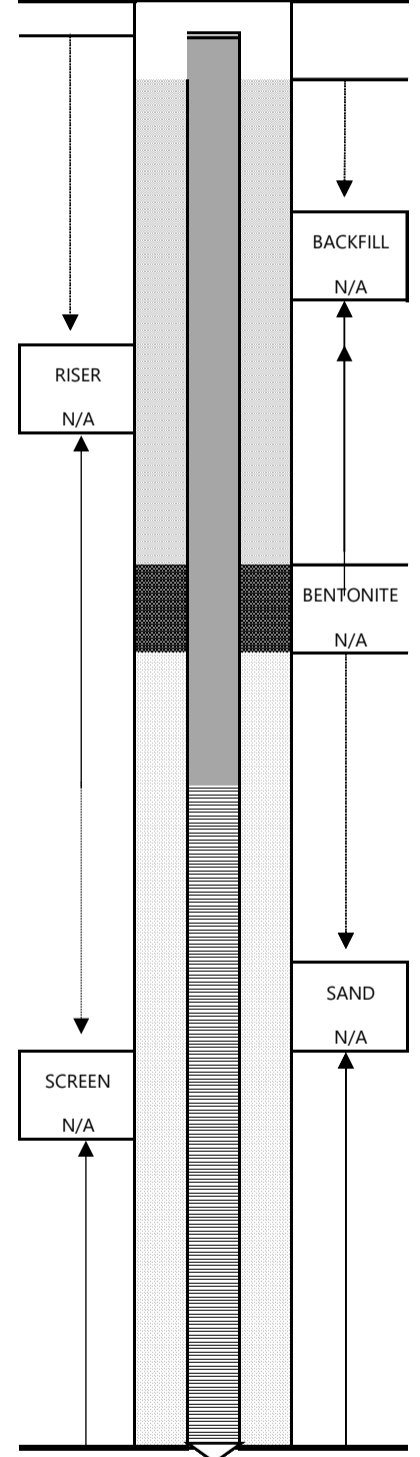
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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0-2		4 6 6 6	24	0.0
2-4	VOC	3 5 8 12	16	0.0
4-6		5 6 7 8	14	0.0
6-8		10 12 8 8	16	0.0

SOIL DESCRIPTION

4" Black/Dark Brown, Fine Sand and silt, some organic 20" Tan/brown, silt and fine sand, little rounded gravel
16" Tan, fine sand and silt
14" Tan/light grey, Fine-Medium sand, little silt
6" same as above 10" Tan/light gray. Silt, light fine sand, wet

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/6/18
DRILLING METHOD: Hollow Stem /
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP31
ESTIMATED DEPTH TO WATER (ft.): 2
TOTAL BORING DEPTH (ft.): 15'
SAMPLE COLLECTED? THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 15' (proct)
TIME OF SAMPLE COLLECTION:
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Manhole
FINISH DEPTH: 15'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

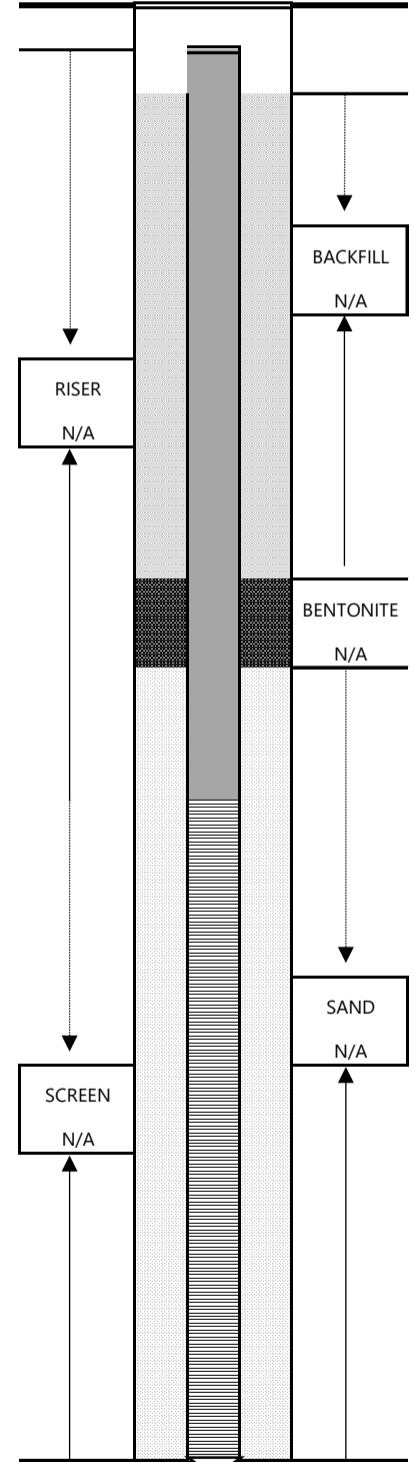
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2	VOC	3 4 3 3	8"	0.0
2-4		3 3 11 8	6"	0.0
4-6		1 3 5 5	16"	0.0
6-8		5 7 7 8	24"	0.0

4" Black, fine-medium sand, little silt, little organic 4" Tan, fine-medium sand, little silt, moist
6" Tan, sand, trace silt, gravel, wet
16" Tan, fine-medium sand, little silt, wet
10" same as above 14" Tan/light grey, silt, trace fine sand, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/6/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP30
ESTIMATED DEPTH TO WATER (ft.):8
TOTAL BORING DEPTH (ft.): 10'
SAMPLE COLLECTED?THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 5-6 (proctor, thermal) 0-8 (OHM)
TIME OF SAMPLE COLLECTION: 1315
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

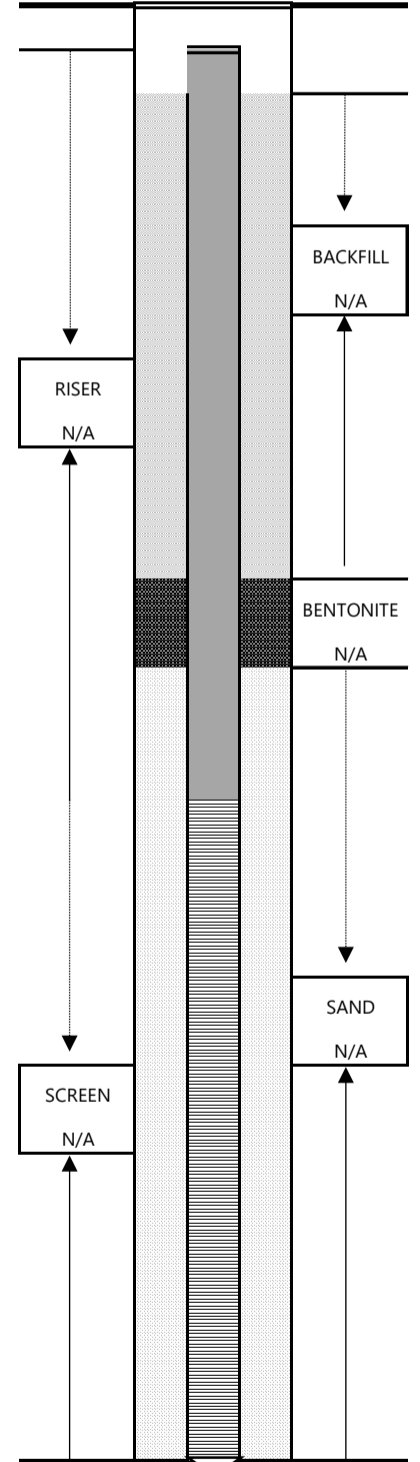
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		2 2 3 5	24	0.0
2-4		6 5 4 3	20	0.0
4-6	VOC	2 2 2 6	24	0.0
6-8		6 6 7 8	20	0.0

6" Black/Brown, fine sand, little silt 18" Tan, fine sand, little silt
12" Tan/Reddish tan, fine sand, little silt 8" Brown/tan, fine sand, some silt
4" Black, fine sand, little silt 16" Tan, brown, fine sand, trace silt 4" Black, silt, some fine sand, little organic
20" Brown/Tan, fine sand and silt, moist



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/5/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP29
ESTIMATED DEPTH TO WATER (ft.):
TOTAL BORING DEPTH (ft.): 15'
SAMPLE COLLECTED? THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 15' (proctor) 0-8, 6-8) OHM
TIME OF SAMPLE COLLECTION: 1315
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Manhole
FINISH DEPTH: 15'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

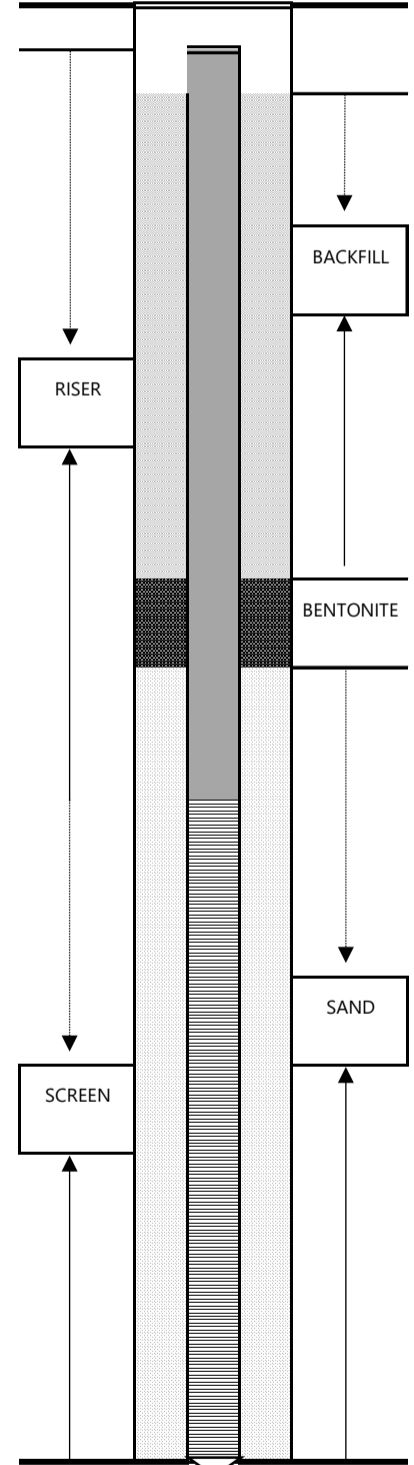
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		4 6 9 8	24	0.0
2-4		7 8 7 7	18	0.0
4-6		3 5 6 6	18	0.0
6-8	VOC Grab		20	0.0

10" black, sand, little silt, trace debris (glass) some org @ surface, fine gravel 14" bright brown, sand, trace silt
8" same as above 10" light tan/light grat, sand, trace silt
18" Same as above
20" light brown/reddish brown, fine sand, some silt, moist, possible redox
End boring @ 15'



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 11/5/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP28
ESTIMATED DEPTH TO WATER (ft.): 7-8
TOTAL BORING DEPTH (ft.): 10'
SAMPLE COLLECTED? THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 5-6 (thermal) 0-8/6-8 (OHM)
TIME OF SAMPLE COLLECTION:
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

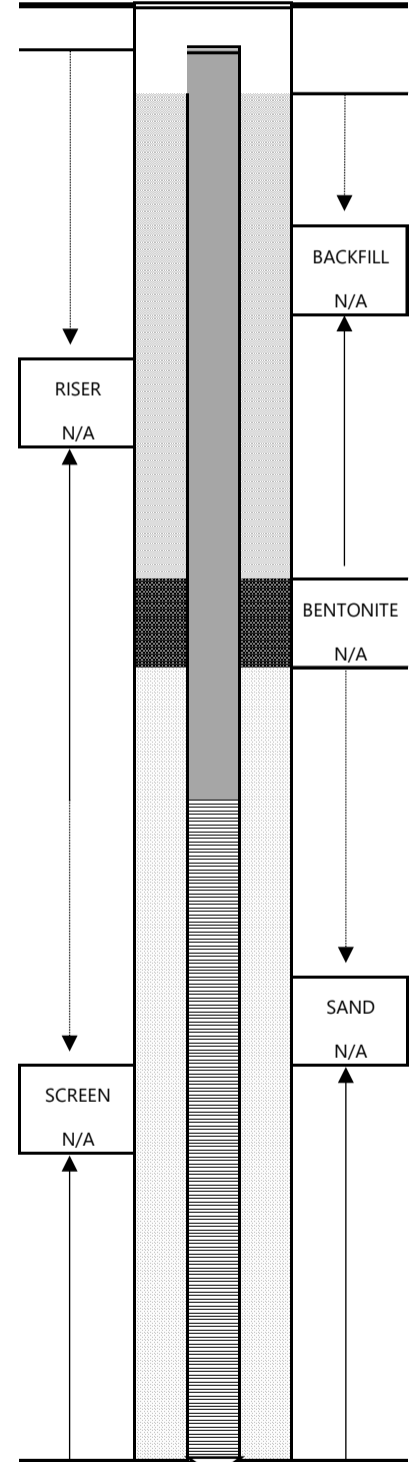
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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0-2		2 2 4 6	24	0.0
2-4		6 8 7 8	20	0.0
4-6		4 8 7 7	24	0.0
6-8	VOC	7 7 7 7	22	0.0

SOIL DESCRIPTION

8" black, fine-medium sand, light silt, coal ash, gravelly 16" Brown-tan, fine sand, light silt
20" Tan, fine sand, light silt
24" Same as above
12" same as above, moist 4" tan, silt, light fine sand 6" same as 12", wet

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSARCH
DRILLING DATE: 11/5/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuous
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP27
ESTIMATED DEPTH TO WATER (ft.): 6'
TOTAL BORING DEPTH (ft.): 15'
SAMPLE COLLECTED? THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 15' (Proctor) 0-8/2-4 (OHM)
TIME OF SAMPLE COLLECTION: 1100
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Manhole
FINISH DEPTH: 15'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

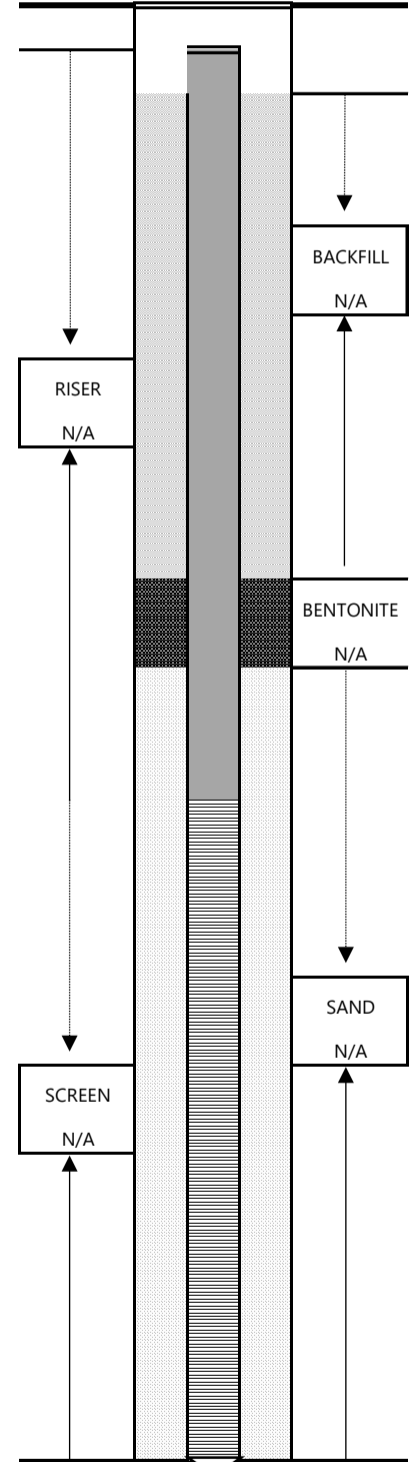
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		2 2 6 6	22	0.0
2-4	VOC	7 7 7 7	20	0.0
4-6		5 5 6 5	16	0.0
6-8		- - - -	20	0.0

8" Black-brown, fine-medium sand and silt, light fine gravel, some org @ top and coal ash 14" tan, fine-medium sand and silt
20" light tan, sand, little silt potential redox observed
16" light tan-light reddish brown, fine-medium sand, light silt, potential redox @ bottom
20" light tan/light gray, fine sand, little silt, moist



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSSEARCH
DRILLING DATE: 11/1/18
DRILLING METHOD: Split Spoon
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: MP33
ESTIMATED DEPTH TO WATER (ft.): 8'
TOTAL BORING DEPTH (ft.): 10'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8 Cont
TIME OF SAMPLE COLLECTION: N/A
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

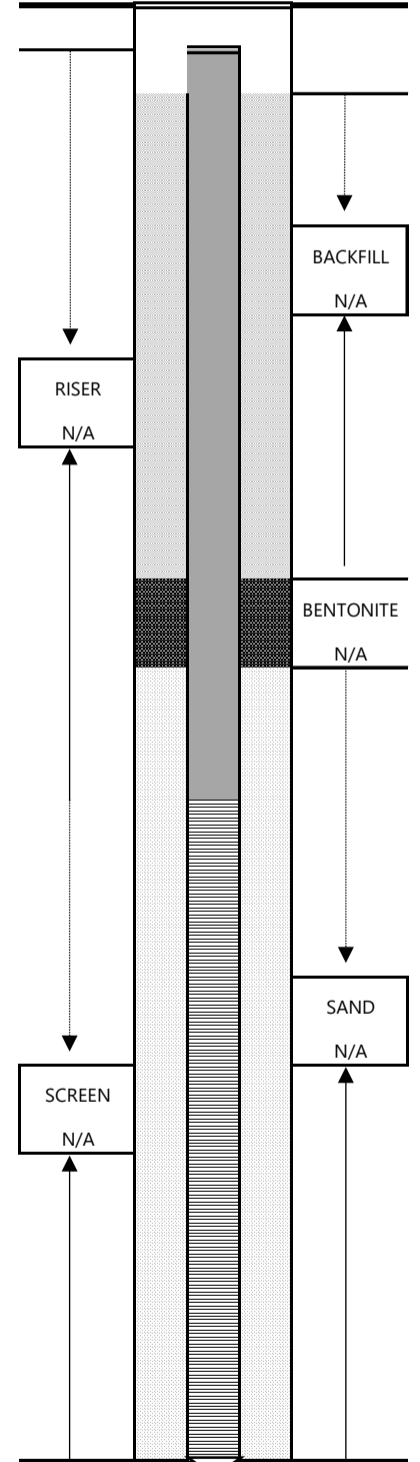
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		3 5 5 6	22	0
2-4		3 3 2 2	20	0
4-6		2 1 1 3	19	0
6-8	VOC	8 8 10 10	19	0
8-10				

6" Top Soil 16" tan medium sand, silt, low density, high plasticity, dry, no odor
6" same as above 14" dark brown, medium sand, silt, high density, low plasticity, wet
19" dark brown medium sand, silty, high density, low plasticity, wet
7" light brown, fine sand, silty, low density, high plasticity, wet 12" grey medium sand, silty clay, low density, high plasticity, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSARCH
DRILLING DATE: 10/26/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP39
ESTIMATED DEPTH TO WATER (ft.):
TOTAL BORING DEPTH (ft.): 10
SAMPLE COLLECTED? THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 5-6 (P/T) 0-8 (comp) 2-4 (VOC)
TIME OF SAMPLE COLLECTION: 1235
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

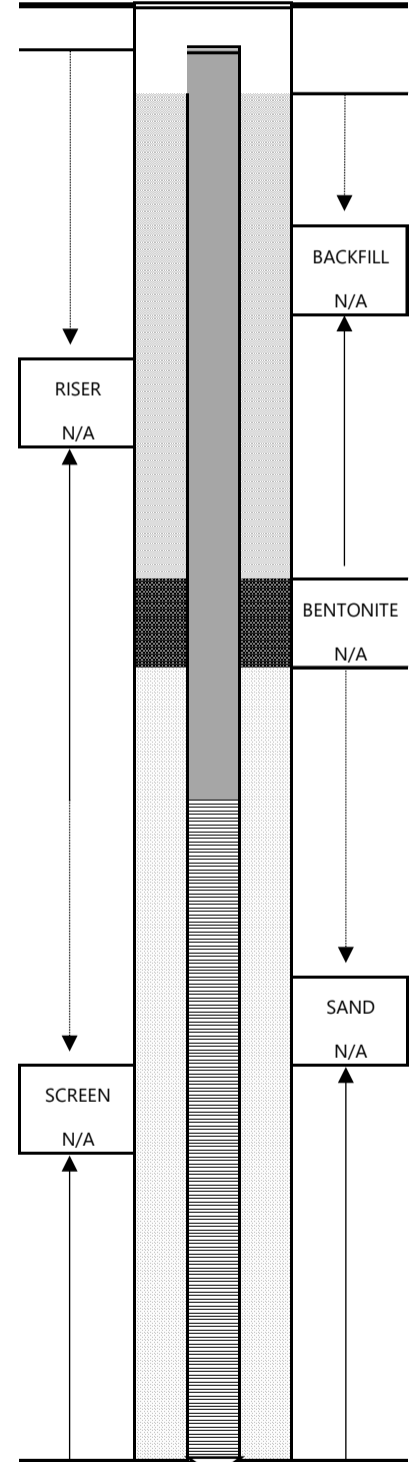
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		4 9 61 41	10	0.0
2-4	VOC	33 26 22 17	20	0.0
4-6		14 13 16 17	10	0.0
6-8		15 14 13 13	24	0.0

8" black, fine sand, little silt 2" light brown/tan sand and silt, hard, gravelly
20" same as above
Same as above
24" Tan, fine- medium sand, silt, Hard, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/26/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP38
ESTIMATED DEPTH TO WATER (ft.):
TOTAL BORING DEPTH (ft.): 16.5
SAMPLE COLLECTED? THERMAL PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' Comp 15' (Proctor)
TIME OF SAMPLE COLLECTION: 1005
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Manhole
FINISH DEPTH: 16.5
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

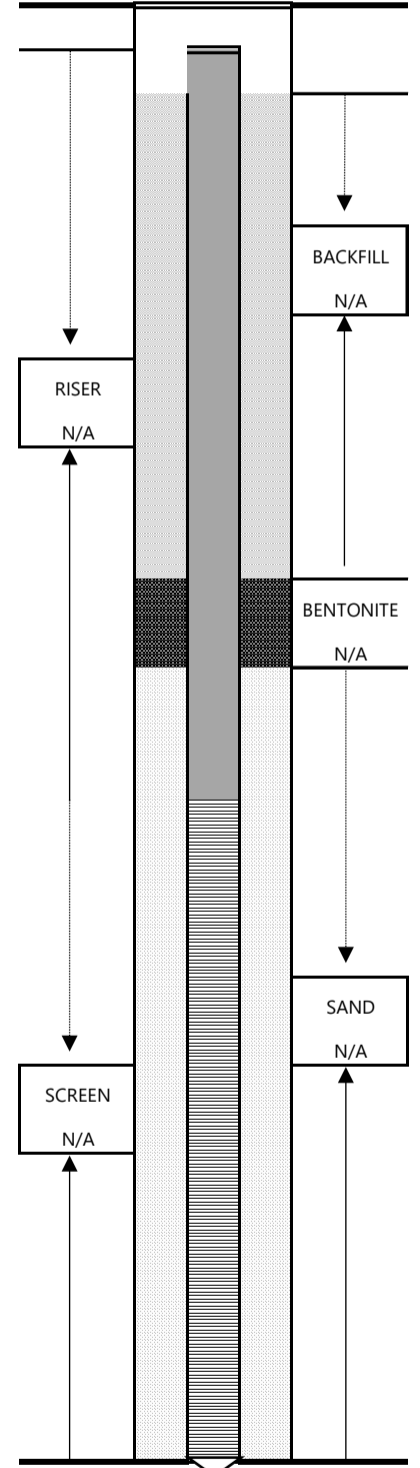
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		4 6 10 8	12	0.0
2-4	VOC	10 10 5 7	4	0.0
4-6		6 15 14 15	24	0.0
6-8		17 20 21 21	24	0.0

6" Black, sand, some silt, granular 3" Brown, medium-course sand 3" Tan, fine sand, some silt, little gravel
4" Reddish Brown, silt, little fine sand
24" Tan, Fine sand and silt, gravelly, hard
24" Brown-Tan/ light gray, silt and fine sand, graqvel, medium density.



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSARCH
DRILLING DATE: 10/26/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: MP37
ESTIMATED DEPTH TO WATER (ft.): 8
TOTAL BORING DEPTH (ft.): 10
SAMPLE COLLECTED? THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' Comp
TIME OF SAMPLE COLLECTION: 0830
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

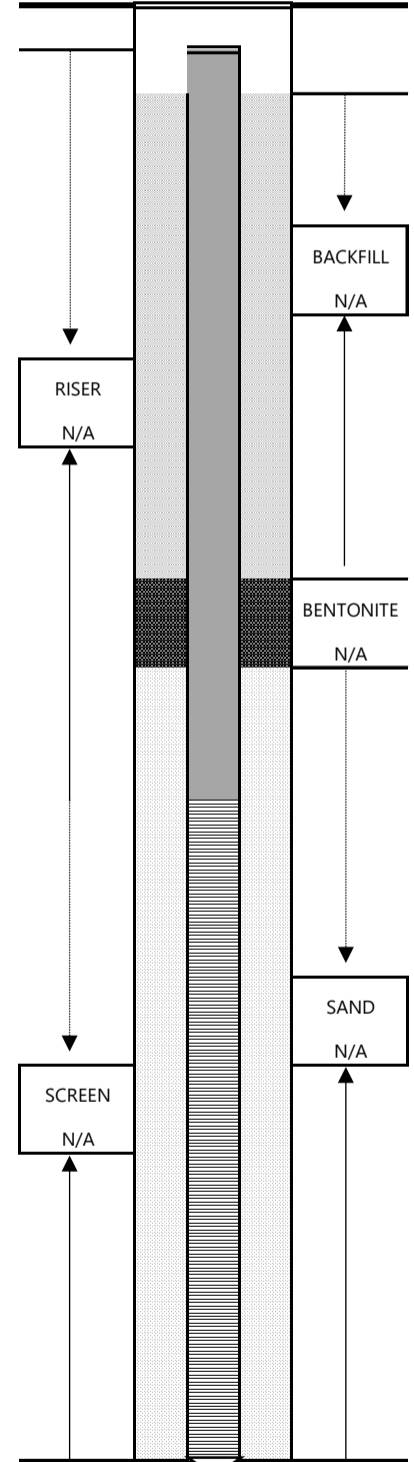
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		2 4 6 5	14	0.0
2-4		6 6 7 5	14	0.0
4-6		5 4 3 3	0	-
6-8	VOC	5 6 12 12	4	0.0

6" Black, medium-coarse sand and silt, granular 8" Tan, fine sand and silt
Same as above
No recovery
4" Light tan/gray, sand, moist



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/25/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: SB39
ESTIMATED DEPTH TO WATER (ft.): Not Encountered
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' (2-4 grab for voc)
TIME OF SAMPLE COLLECTION: 1105
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

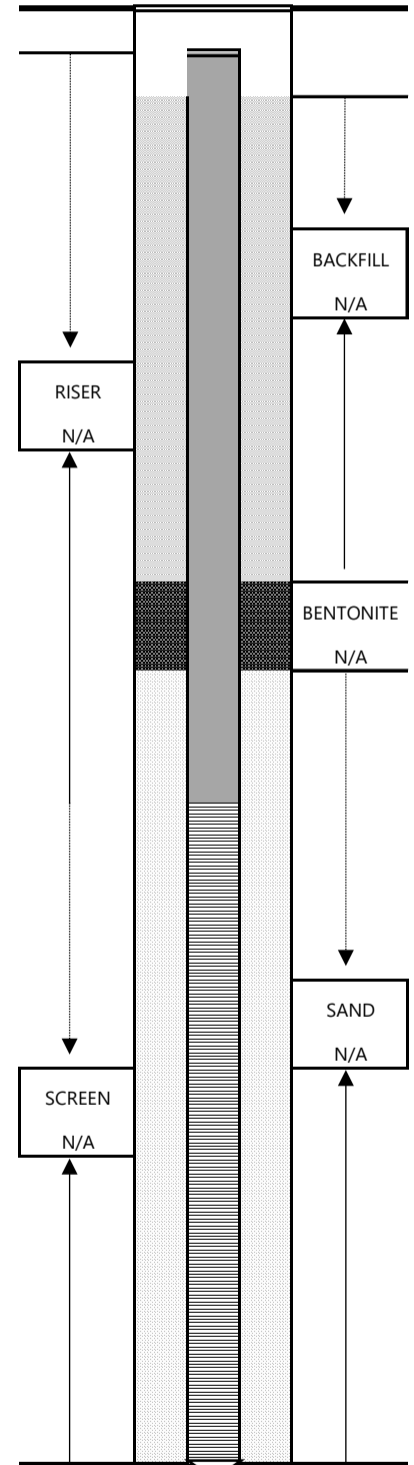
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		4 13 13 17	24	0
2-4	VOC	17 50/1" - -	10	3.1
4-6		20 11 15 19	10	0.1
6-8		10 16 16 16	16	0.2

10" Brown, Silt, some fine sand, some organic 14" Brown, Sand, some silt, very gravelly
10" Same as above, firm, little clay
Same as above
Same as above



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSSEARCH
DRILLING DATE: 10/25/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: SB38
ESTIMATED DEPTH TO WATER (ft.): Not Encountered
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' (0-2 grab for voc)
TIME OF SAMPLE COLLECTION: 1105
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

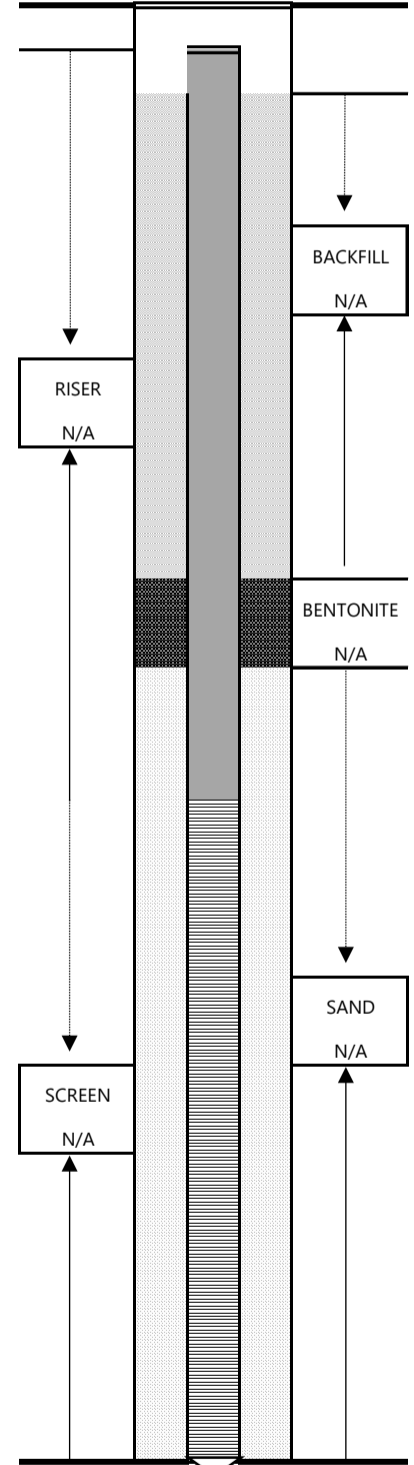
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2	VOC	4 3 4 5	20	0.2
2-4		5 4 3 3	18	0.0
4-6		3 3 2 3	18	0.0
6-8		2 3 2 5	16	0.0

4" Brown, silt and medium-fine sand, some organic 20" Tan, silt and little fine sand
18" same as above
6" Brown, silt and fine sand 12" Tan, silt and fine sand
16" Same as above, trace clay



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSSEARCH
DRILLING DATE: 10/25/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: SB37
ESTIMATED DEPTH TO WATER (ft.): Not Encountered
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' (4-6 grab for voc)
TIME OF SAMPLE COLLECTION: 1020
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

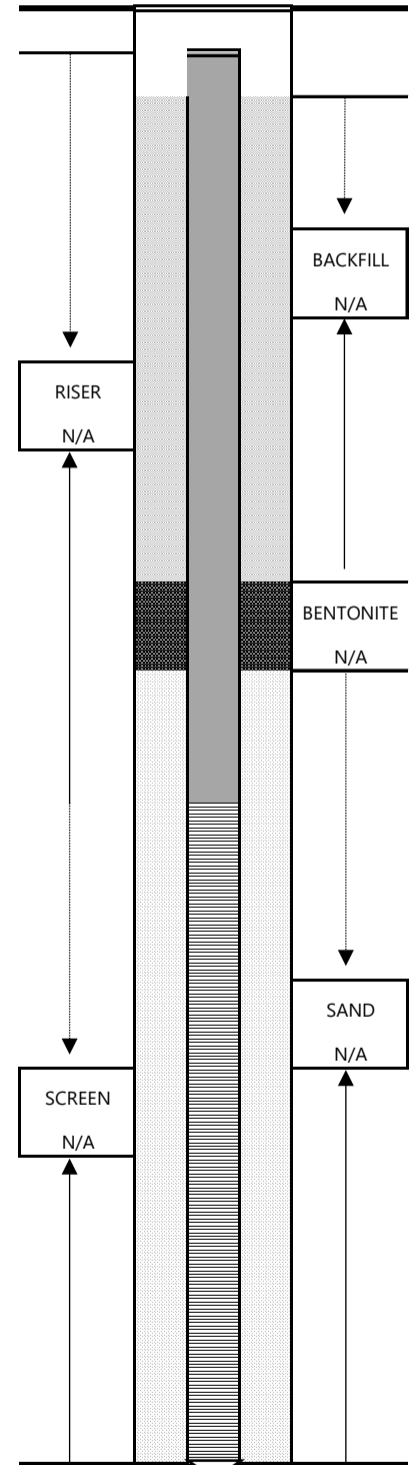
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		3 3 4 4	16	0.5
2-4		6 7 5 4	16	0.0
4-6	VOC	3 4 6 4	12	2.9
6-8		3 6 14 11	6	0.0

6" brown, sand and silt, some organic underlain by light brown/tan sand and silt
4" same as above 12" Tan, silt and fine sand, trace gravel
12" Tan, silt and fine sand, some gravel
6" same as above, clay at bottom



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/25/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuous
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: SB50
ESTIMATED DEPTH TO WATER (ft.): 3'
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' (4-6 grab for voc)
TIME OF SAMPLE COLLECTION: 0914
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

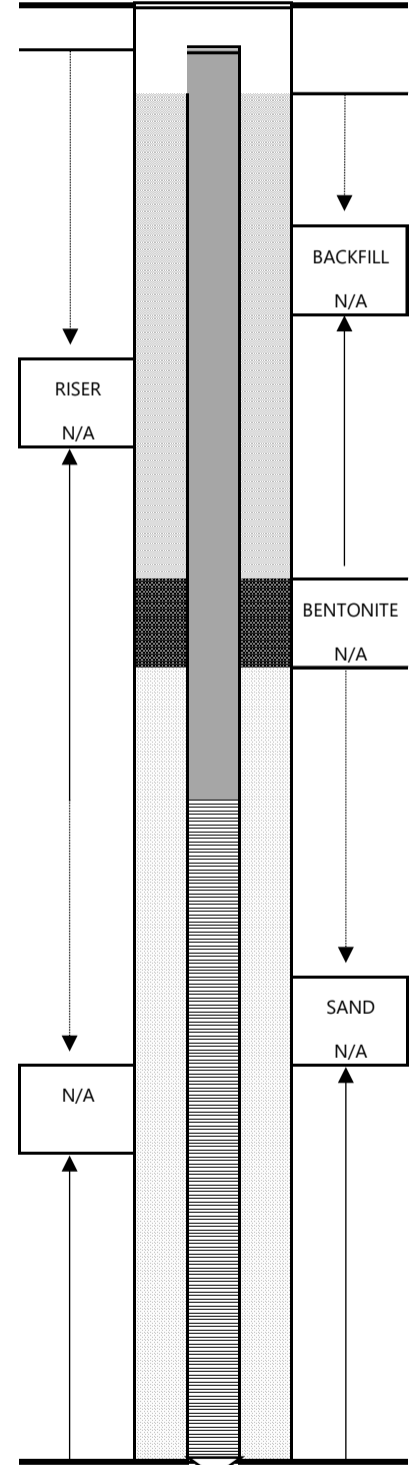
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		2 2 2 2	18	0.1
2-4		3 3 4 10	24	0.0
4-6	VOC	2 2 4 9	18	1.0
6-8		7 8 8 8	18	0.3

9" gray-black fine-medium sand and siltn little gravel, little organic 9" brown-dark brown, fine sand and silt
10" same as above 14" Tan, Fine Sand and Silt, moist
18" tan, fine sand, some silt, moist
9" Same as above, wet 9" Tan, Silt, some fine sand, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/24/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: FTB

LOCATION ID: GB21
ESTIMATED DEPTH TO WATER (ft.): 2.5
TOTAL BORING DEPTH (ft.): 16'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' (o-2' grab voc)
TIME OF SAMPLE COLLECTION: 10:57
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV
FINISH DEPTH: 16'
REFUSAL ENCOUNTERED: Auger Refusal

NOTES/SKETCH:
Location ~6' east of SB-51 stake originally to accommodate for geotech for GB-21, move stake

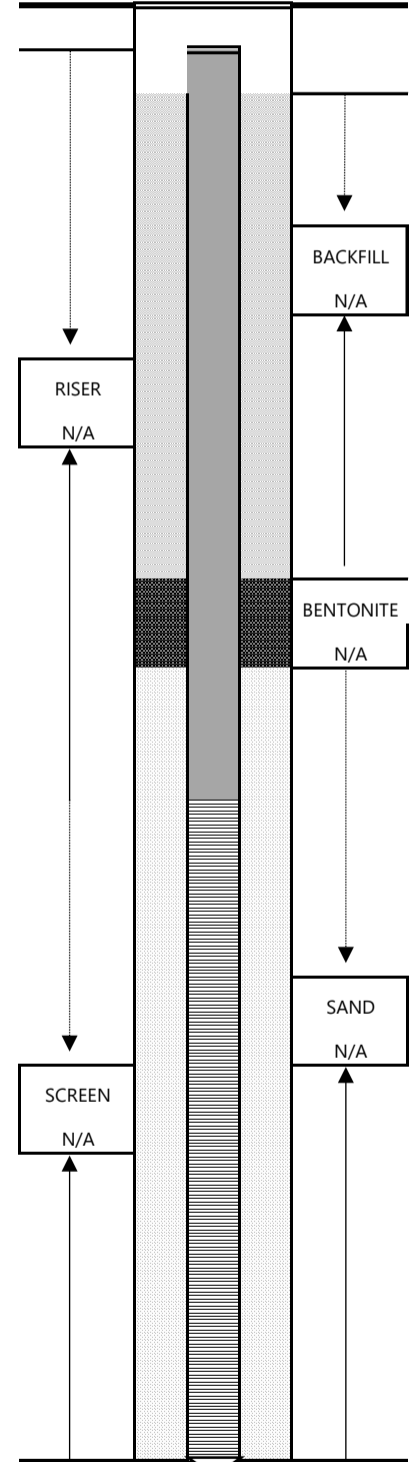
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2	VOCs	3	12	0.0
		4		
		9		
		18		
2-4		13	18	0.0
		10		
		75		
		35		
4-6		7	12	0.0
		18		
		36		
		22		
6-8		12	16	0.0
		19		
		31		
		21		

2" Brown silt and organic material 8" black, sand, little silt, gravel, some coal ash 2" brown sand little silt, gravel
18" brown/tan silt with little fine sand, moist, redox at bottom
4" same as above 4" Dark grey/ tan, medium coarse sand, little silt, gravel, moist 4" Tan, sand, some gravel, moist
16" light tan, medium-coarse sand and gravel, wet



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/18/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: TJP

LOCATION ID: MP36
ESTIMATED DEPTH TO WATER (ft.): 4.25'
TOTAL BORING DEPTH (ft.): 10'
SAMPLE COLLECTED? THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 0-10' OHM 5-6' thermal/proctor
TIME OF SAMPLE COLLECTION: 14:25
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 10'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:

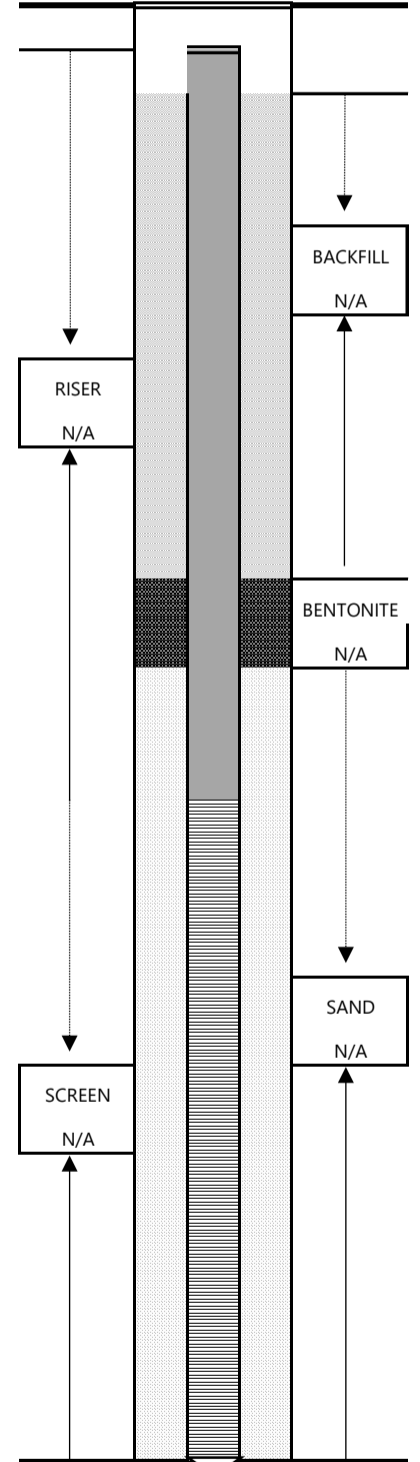
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		2 2 3 2	16	0.0
2-4		2 1 1 1	26	0.0
4-6	VOC	2 2 2 3	23	0
6-8		1 1 8 8	21	0
8-10		5 9 9 11	13	0

top 6" forest mat, under 10" lite brown silty sand, medium fine, low density, high p;lasticity, dry, no odor
Top 2" brown silty sand, medium, under 18" brown silty sand medium, high plasticity, low density, wet, no odor
Same as above for 13", underlain by dark brown silty fine sand, some organics, low plasticity, high density, dry, slight organic odor.
Light brown, silty sand, fine-med for 11", then dark brown silty fine sand, high density, low plasticity, wet, organic odor, 3" of grey fine sand natural.
Light grey/brown for 7", silty fine medium sand then gravel for 6", High plasticity, low density, wet, no odor



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/11/18
DRILLING METHOD: 4'4" Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC, TJP

LOCATION ID: SB49
ESTIMATED DEPTH TO WATER (ft.): ~6'
TOTAL BORING DEPTH (ft.): 8'
SAMPLE COLLECTED? THERMAL PROCTOR OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' OHM
TIME OF SAMPLE COLLECTION: 14:25
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) ENV.
FINISH DEPTH: 8'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH: 4 1/4" Auger

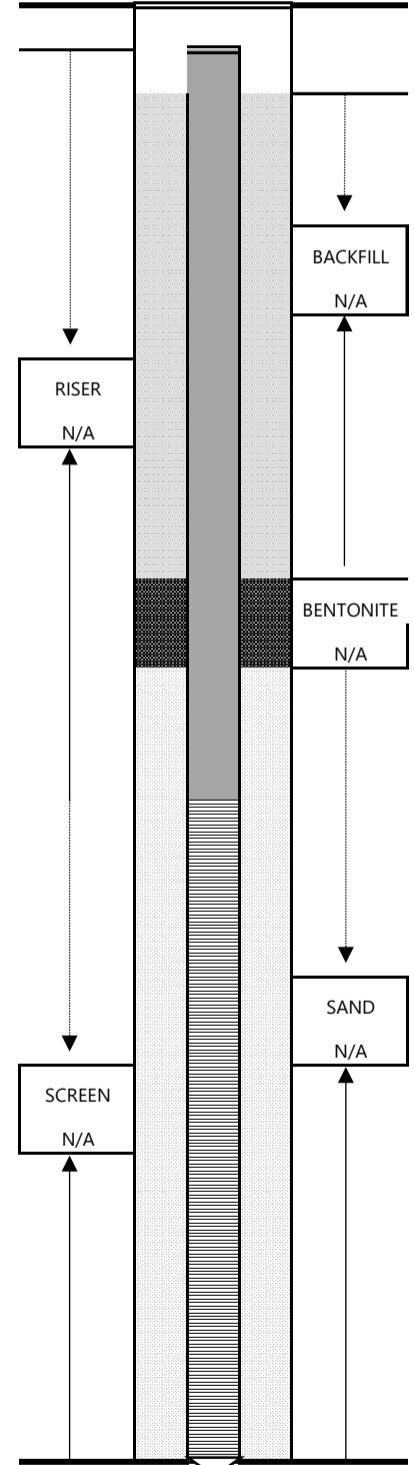
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		4 5 3 3	20	0.0
2-4		3 3 2 2	18	0.0
4-6	VOC	3 4 3 11	7	0.0
6-8		12 14 13 11	17	0.0

SOIL DESCRIPTION

first 6" dark brown organic material, medium fine sand, low density, low plasticity, underlain by light brown medium sand, low density, low plasticity, dry, no odor
Brown medium fine sand with trace rounded gravel, orange streaks at ~9", low density, high plasticity, moist, no odor.
Grey/black very fine-medium sand with some silt, low density, medium plasticity, clay at botton, moist, no odor
Grey, very fine-coarse sand with some silt and rounded gravel, clay at bottom 2", medium density, medium plasticity, wet, no odor

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/11/18
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC, TJP

LOCATION ID: MP34
ESTIMATED DEPTH TO WATER (ft.): 7'
TOTAL BORING DEPTH (ft.): 12'
SAMPLE COLLECTED? THERMAL X PROCTOR X OHM X
DEPTH OF SAMPLE COLLECTED: 0-8' OHM, 5-6 Thermal
TIME OF SAMPLE COLLECTION: 14:21
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Intermediate
FINISH DEPTH: 12'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:
4 1/4" Auger

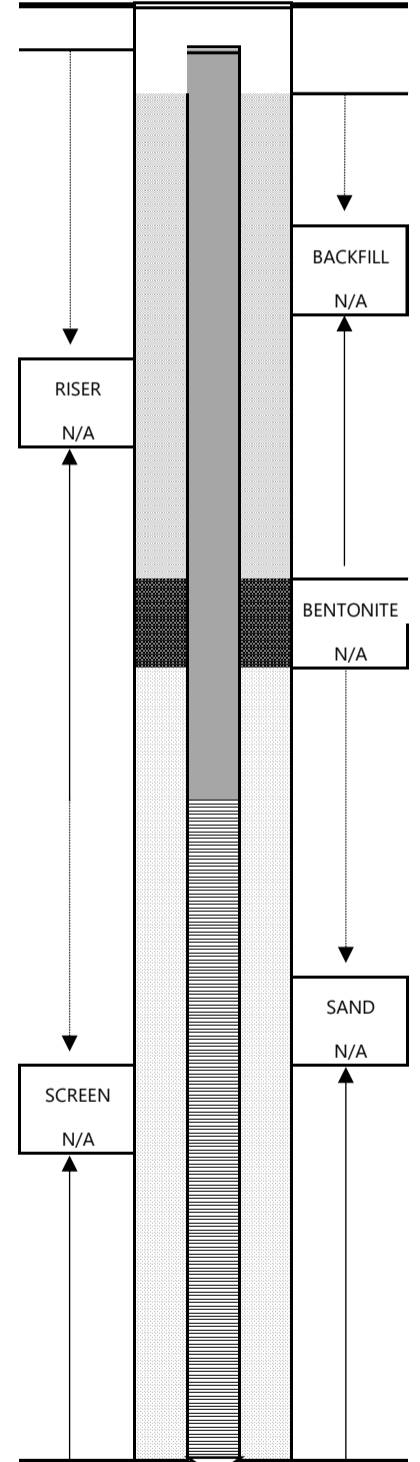
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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0-2		3 3 3 3	17"	0
2-4		7 7 19 31	10"	0
4-6	VOC	13 120/2	N/A	0
6-8		11 119 41 34	8"	0

SOIL DESCRIPTION

Dark brown medium sand with trace sub-angular gravel, low density, low platicity, dry, no odor
light brown, medium-fine sand with some sub-angular gravel and rocks, medium density, low plasticity, dry, rock at ~4'
Wood, no recovery
brown, fine sand, silt, some gravel and rocks, low plasticity, low density, wet.

WELL CONSTRUCTION (ft.)



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



CLIENT: EVERSOURCE
PROJECT: PROPOSED TRANSMISSION LINE
PROJECT #: 12970.00
DIGSAFE: 20183510192
DRILLER: GEOSEARCH
DRILLING DATE: 10/11/18
DRILLING METHOD: Hollow Stem /
SAMPLING METHOD: Continuos
PRE-CLEAR DEPTH: N/A
LOGGED BY: PEC, TJP

LOCATION ID: MP32
ESTIMATED DEPTH TO WATER (ft.):
TOTAL BORING DEPTH (ft.): 12'
SAMPLE COLLECTED? THERMAL ___ PROCTOR ___ OHM X
DEPTH OF SAMPLE COLLECTED: 0-8
TIME OF SAMPLE COLLECTION: 10:22
SAMPLING PURPOSE (i.e. MANHOLE, INTERMEDIATE...) Geoboring
FINISH DEPTH: 12'
REFUSAL ENCOUNTERED: NO

NOTES/SKETCH:
12' to native

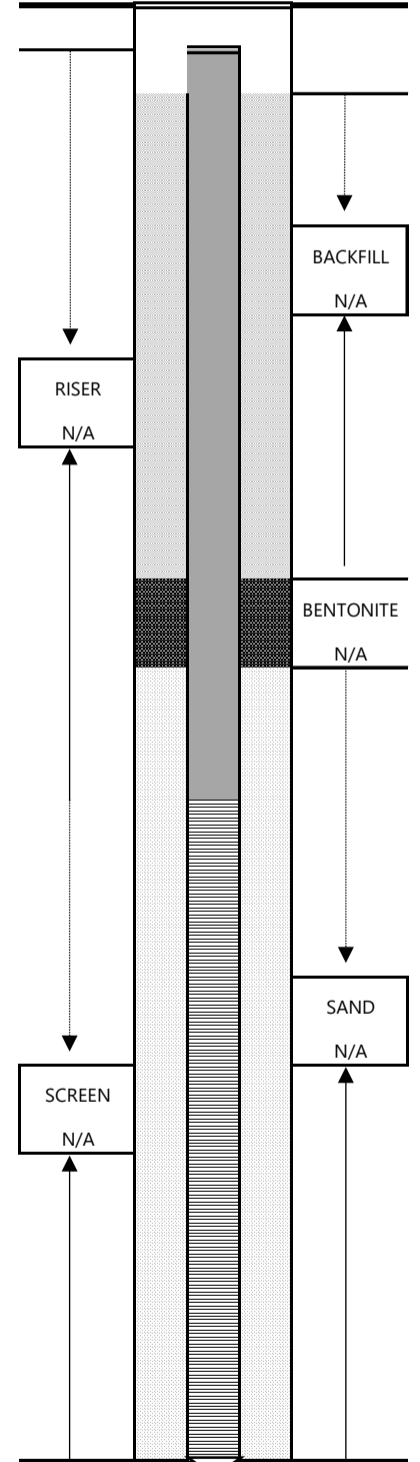
DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
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SOIL DESCRIPTION

WELL CONSTRUCTION (ft.)

DEPTH (ft.)	LAB SAMPLE	BLOWS (per 6-in)	RECOVERY (in.)	PID (ppmV)
0-2		3 6 5 5	12"	0
2-4		6 5 3 4	21"	0
4-6	VOC	4 3 1 2	21"	0
6-8		1 2 2 6	17"	0

Dark brown medium coarse sand with little sub-angular gravel/rocks, low density, low plasticity, dry, no odor
top 14" light brown medium sand, gomogenous, underlain by brown medium sand, low density, low plasticity, dry, no odor
Same as above for 7", underlain by dark brown/black silty fine sand (peat), High plasticity, low density, wet, slight organic odor
Same as above for 12" underlain by grey silty clay, low density, high plasticity, wet, no odor.
end of boring



SOIL DESCRIPTIONS:	
1) PRIMARY GRAIN SIZE (BOULDERS, COBBLES, GRAVEL, SAND (COARSE, FINE) SILT, CLAY)	6) ANGULARITY (V. ANGULAR, ANG, SUB ANG, SUB ROUNDED, ROUNDED, WELL ROUNDED)
2) SECONDARY GRAIN SIZE (TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%)	7) COLOR (GREY, BROWN, etc.)
3) PLASTICITY (VERY HIGH, HIGH, MED., LOW, SLIGHT, NON-PLASTIC)	8) STRUCTURES, STAINING, ALTERATION (LAMINATED, BEDDED, IRON STAINED, ETC.)
4) MOISTURE (WET, MOIST, DRY)	9) ODORS/ORGANIC CONTENT (PETROLEUM, SEPTIC)
5) DENSITY (LOOSE, MEDIUM DENSE, HARD)	10) GEOLOGICAL INTERPRETATION (I.E. FILL/TILL, GLACIAL CLAY, CHANNEL DEPOSIT, etc.)



PROJECT NAME S-H
 LOCATION Chestnut St
 SAMPLING CREW PAB

VHB-LOW FLOW GROUNDWATER SAMPLING RECORD SB/

PROJECT# 12970.00 WELL ID Mw-5
 DATE 8/2/18 SAMPLING TIME 1345

4:29/1 liter

PURGE DATA
 REFERENCE PVC Steel Casing Ground Surface
 DEPTH TO WATER: 15.32 (FT)
 HEIGHT OF REFERENCE POINT FROM GRADE:

PURGING DEVICE: Peri. pump FIELD FILTERED: Y X N N/A
 WELL DEPTH: (FT) FLOW RATE:
 ROADBOX: No STANDPIPE: Yes

Clock Time hr:min	Static Depth ft. (< 0.3 ft.)	Purge Rate ml/min. (100-400)	Cum. Volume Purged L	Temp. C (3%)	SP Cond (μ S/cm) (3%)	Cond. (μ S/cm) (3%)	pH (s.u.) (± 0.1 unit)	ORP/Eh (mv) (± 10 mv)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Water Depth (ft) (< 0.33)	Flow (l/min) (< 0.5)	COMMENTS
1355	15.6	19.54	top of standpipe	15.5	117.0	100.1	7.25	14.5	1.79	87.7			
1359	19.57			15.5	110.0	95.0	5.57	-8.9	0.38	94.25			
1403	19.57			15.6	110.1	95.5	5.37	-23.9	0.24	126.4			
1407	19.58			15.4	110.0	95.0	5.37	-30.3	0.21	130.2			
1410	19.59			15.3	108.5	93.5	5.37	-37.7	0.17	43.38			sample

switch to top of standpipe for DTGW

FINAL FIELD DATA

Temp. 15.3 (C) ORP -37.7 (mv) COMMENTS:
 Conductivity 93.5 (μ S/cm) DO 0.17 (mg/L)
 pH 5.37 (s.u.) Turbidity 43.38 (NTU)

COOR AND PHYSICAL APPEARANCE OF SAMPLE Clear, org. odor

WEATHER CONDITIONS Sunny, 85°

WELL CONDITION DATA

Protective Case: Y N N N Concrete pad present:
 Protective Case: Y N N N Standing Water:
 Physical Damage: Y N N N
 If yes, Describe: _____

Cap on riser: Y N N N
 Visible Heaving: Y N N N



VHB-LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME S-1 Transmission
 LOCATION Perkins Coast.
 SAMPLING CREW PLS

PROJECT# 12970.00WELL ID SB/MUJ-21DATE 9/3/18

SAMPLING TIME

0930

PURGE DATA

PVC Steel Casing Ground Surface
 REFERENCE DEPTH TO WATER: 4.96 (FT)
 HEIGHT OF REFERENCE POINT FROM GRADE: 3'

PURGING DEVICE: Peri. pump FIELD FILTERED: Y N N/A
 WELL DEPTH: _____ (FT) FLOW RATE: _____
 ROADBOX: N0 STANDPIPE: Yes

Clock Time hr:min	Static Depth ft. (< 0.3 ft.)	Purge Rate ml/min. (100-400)	Cum. Volume Purged L	Temp. C (3%)	SP Cond (μ S/cm) (3%)	Cond. (μ S/cm) (3%)	pH (s.u.) (± 0.1 unit)	ORP/Eh (mv) (± 10 mv)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Water Depth (ft) (< 0.33)	Flow (l/min) (< 0.5)	COMMENTS
0934				16.5	525	458	5.09	113.4	1.03	551	9.21		
0937				16.1	519	454.5	5.09	86.8	0.38	488	9.19		
0942				17.0	520	462.1	5.01	49.2	0.22	211	9.20		
0947				16.8	522	461.5	5.06	23.6	0.16	722	9.19		
0950				16.8	521	460.4	5.07	27.6	0.14	1183	9.20		Pause
0953				17.0	522	462.4	5.11	22.2	0.14	1274	9.18		
1022				21.0	536	505	5.05	45.0	0.47	750	9.18		
1025				17.5	522	466	5.15	31.4	0.21	389	9.19		
1028				17.6	518	463	5.17	25.5	0.17	284	9.19		sample

FINAL FIELD DATA

Temp. 17.6 (C)
 Conductivity 463 (μ S/cm)
 pH 5.17 (s.u.)

ORP 25.5 (mv)
 DO 0.17 (mg/L)
 Turbidity 284 (NTU)

COMMENTS: Though turb. high seems like some silt collected at bottom and is mixing w/ input water

ODOR AND PHYSICAL APPEARANCE OF SAMPLE

Somewhat clear, grey tint, no odor

WEATHER CONDITIONS

80°, humid

WELL CONDITION DATA

Protective Casir Y
 Protective Casir Y
 Physical Damage: Y
 If yes, Describe: _____

Concrete pad present: Y
 Standing Water: Y

Cap on riser: Y
 Visible Hearing: Y

Y
 Y



7:36/1 L

VHB-LOW FLOW GROUNDWATER SAMPLING RECORD SB

PROJECT NAME 5-H Transmission Reliability
 LOCATION Row + T6P
 SAMPLING CREW TRB

PROJECT# 12970.00
 DATE 8/2/16

WELL ID MW-24
 SAMPLING TIME 10:25

PURGE DATA
 REFERENCE PVC Steel Casing Ground Surface
 DEPTH TO WATER: 7.65 (FT)
 HEIGHT OF REFERENCE POINT FROM GRADE: —

PURGING DEVICE: Peri. Pump
 WELL DEPTH: 12.5 (FT)
 ROADBOX: Yes

FIELD FILTERED: Y
 FLOW RATE: N/A
 STANDPIPE: No

Clock Time hr:min	Static Depth ft (< 0.3 ft.)	Purge Rate ml/min (100-400)	Cum. Volume Purged L	Temp. C (3%)	SP Cond (uS/cm) (3%)	Cond. (uS/cm) (3%)	pH (s.u.) (± 0.1 unit)	ORP/Eh (mv) (± 10 mv)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Water Depth (ft) (< 0.33)	Flow (l/min) (< 0.5)	COMMENTS
10:25				24.0	9.0	22.6	10.80	115.0	5.32	186.8			
10:28				19.7	75.3	69.7	7.98	107.2	5.54	1410			
10:32				19.5	70.7	65.4	6.94	125.6	6.92	892			
10:36				19.8	69.7	64.7	6.76	147.5	7.94	490			
10:40				20.1	68.7	63.8	6.50	164.7	8.53	260			
10:43				20.0	67.6	62.2	6.84	171.0	8.76	172			
10:46				20.0	67.4	62.9	6.94	173.5	8.94	107			
10:49				20.0	67.4	62.6	7.00	174.3	9.08	76			Sample

FINAL FIELD DATA

Temp. 20.0 (C)
 Conductivity 62.6 (uS/cm)
 pH 7.50 (s.u.)

ORP 174.3 (mv)
 DO 9.08 (mg/L)
 Turbidity 76 (NTU)

COMMENTS: Pretty clear @ last reading

ODOR AND PHYSICAL APPEARANCE OF SAMPLE

WEATHER CONDITIONS Partly cloudy, warm 80°

WELL CONDITION DATA

Protective Case: Y N
 Protective Clear: Y N
 Physical Damage: Y N
 If yes, Describe: None

Cap on riser: Y N
 Visible Hearing: Y N

APPENDIX F

Laboratory Data Reports

October 15, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury/Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18J0192

Enclosed are results of analyses for samples received by the laboratory on October 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 10/15/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0192

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury/Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-40	18J0192-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18J0192-01[MP-40]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18J0192-01[MP-40]

SW-846 8151A

Qualifications:**V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**2,4,5-T [2C]**

B213836-BLK1, B213836-BSD1

2,4-DB [2C]

B213836-BLK1, B213836-BSD1

SW-846 8260C

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

B214054-BS1

Acetone

B214054-BS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene**

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

2-Butanone (MEK)

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

2-Hexanone (MBK)

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

Acetone

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

Bromochloromethane

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

Bromomethane

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

Dibromomethane

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

Tetrahydrofuran

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichloropropane**

B214054-BS1, B214054-BSD1, S028040-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18J0192-01[MP-40], B214054-BLK1, B214054-BS1, B214054-BSD1, S028040-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B214054-BS1, B214054-BSD1, S028040-CCV1

SW-846 8270D**Qualifications:****V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Aniline**

B214109-BLK1, B214109-BS1, B214109-BSD1

Bis(2-chloroisopropyl)ether

B214109-BLK1, B214109-BS1, B214109-BSD1

Pyridine

B214109-BLK1, B214109-BS1, B214109-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

B214109-BS1, B214109-BSD1

Hexachlorobutadiene

B214109-BS1, B214109-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18J0192-01[MP-40], B214109-BLK1, B214109-BS1, B214109-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

B214109-BLK1

Hexachlorobutadiene

B214109-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18J0192-01[MP-40], B214109-BLK1, B214109-BS1, B214109-BSD1

Aniline

18J0192-01[MP-40]

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18J0192-01[MP-40], B213948-DUP1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.062	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Bromochloromethane	ND	0.0012	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Bromomethane	ND	0.0062	mg/Kg dry	1	R-05, V-34	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
2-Butanone (MEK)	ND	0.025	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Carbon Disulfide	ND	0.0037	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Chlorodibromomethane	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Chloroethane	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Chloroform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Chloromethane	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,3-Dichloropropane	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
cis-1,3-Dichloropropene	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
trans-1,3-Dichloropropene	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Diethyl Ether	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Diisopropyl Ether (DIPE)	ND	0.00062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,4-Dioxane	ND	0.062	mg/Kg dry	1	V-16	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Methylene Chloride	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Naphthalene	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Tetrahydrofuran	ND	0.0062	mg/Kg dry	1	V-16	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2,3-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1	R-05	SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
Vinyl Chloride	ND	0.0062	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
m+p Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	10/5/18	10/5/18 17:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	10/5/18 17:42
Toluene-d8	98.2	70-130	10/5/18 17:42
4-Bromofluorobenzene	102	70-130	10/5/18 17:42

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-34	SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	V-34	SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-19	SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/5/18	10/8/18 15:37	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		68.2	30-130					10/8/18 15:37	
Phenol-d6		72.8	30-130					10/8/18 15:37	
Nitrobenzene-d5		73.0	30-130					10/8/18 15:37	
2-Fluorobiphenyl		73.0	30-130					10/8/18 15:37	
2,4,6-Tribromophenol		76.3	30-130					10/8/18 15:37	
p-Terphenyl-d14		76.8	30-130					10/8/18 15:37	

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.24	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Aldrin [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
alpha-BHC [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
beta-BHC [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
delta-BHC [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
gamma-BHC (Lindane) [2]	ND	0.024	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Chlordane [2]	ND	0.24	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
4,4'-DDD [2]	ND	0.048	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
4,4'-DDE [2]	ND	0.048	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
4,4'-DDT [2]	ND	0.048	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Dieldrin [2]	ND	0.048	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endosulfan I [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endosulfan II [2]	ND	0.095	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endosulfan sulfate [2]	ND	0.095	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endrin [2]	ND	0.095	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endrin aldehyde [2]	ND	0.095	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Endrin ketone [2]	ND	0.095	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Heptachlor [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Heptachlor epoxide [2]	ND	0.059	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Hexachlorobenzene [2]	ND	0.071	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Methoxychlor [2]	ND	0.59	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Toxaphene [2]	ND	1.2	mg/Kg dry	10		SW-846 8081B	10/5/18	10/14/18 0:11	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					10/14/18 0:11	
Decachlorobiphenyl [2]		97.6	30-150					10/14/18 0:11	
Tetrachloro-m-xylene [1]		93.9	30-150					10/14/18 0:11	
Tetrachloro-m-xylene [2]		91.6	30-150					10/14/18 0:11	

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	10/5/18	10/8/18 16:04	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		98.0	30-150					10/8/18 16:04	
Decachlorobiphenyl [2]		89.7	30-150					10/8/18 16:04	
Tetrachloro-m-xylene [1]		86.8	30-150					10/8/18 16:04	
Tetrachloro-m-xylene [2]		88.8	30-150					10/8/18 16:04	

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Sampled: 10/2/2018 12:12

Field Sample #: MP-40

Sample ID: 18J0192-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
Dinoseb [1]	ND	15	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/3/18	10/10/18 10:35	PJG
Surrogates		% Recovery							
2,4-Dichlorophenylacetic acid [1]		85.7						10/10/18 10:35	
2,4-Dichlorophenylacetic acid [2]		81.8						10/10/18 10:35	
			Recovery Limits						
			30-150						
			30-150						

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Field Sample #: MP-40

Sampled: 10/2/2018 12:12

Sample ID: 18J0192-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	10	9.9	mg/Kg dry	1		SW-846 8100 Modified	10/5/18	10/7/18 21:42	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		79.2	40-140					10/7/18 21:42	

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Sampled: 10/2/2018 12:12

Field Sample #: MP-40

Sample ID: 18J0192-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Arsenic	3.4	2.0	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Barium	35	2.0	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Beryllium	0.45	0.20	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Chromium	16	0.39	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Lead	5.1	0.59	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	10/9/18	10/10/18 10:35	AJL
Nickel	11	0.39	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Vanadium	22	0.78	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW
Zinc	22	0.78	mg/Kg dry	1		SW-846 6010D	10/9/18	10/10/18 18:06	QNW

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Project Location: Sudbury/Hudson, MA

Sample Description:

Work Order: 18J0192

Date Received: 10/3/2018

Sampled: 10/2/2018 12:12

Field Sample #: MP-40

Sample ID: 18J0192-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	10/9/18	10/9/18 18:20	DJM
pH @20.2°C	5.8		pH Units	1	H-03	SW-846 9045C	10/3/18	10/3/18 20:12	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	10/6/18	10/8/18 15:40	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	10/6/18	10/8/18 14:45	DJM
Specific conductance	5.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	10/10/18	10/10/18 11:30	EC
% Solids	83.3		% Wt	1		SM 2540G	10/10/18	10/11/18 6:51	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J0192-01 [MP-40]	B214426	10/10/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18J0192-01 [MP-40]	B214430	1.00	10/10/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18J0192-01 [MP-40]	B214388	50.0	10/09/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214355	1.53	50.0	10/09/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214378	0.622	50.0	10/09/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214106	10.1	10.0	10/05/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214105	10.1	10.0	10/05/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214108	30.4	1.00	10/05/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B213836	20.1	5.00	10/03/18

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Sample Extraction Data**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214054	9.68	10.0	10/05/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214109	30.4	1.00	10/05/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214147	25.5	250	10/06/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0192-01 [MP-40]	B214197	25.5	250	10/06/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18J0192-01 [MP-40]	B213948	20.0	10/03/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214054 - SW-846 5035

Blank (B214054-BLK1)

Prepared & Analyzed: 10/05/18

Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							R-05
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							R-05
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214054 - SW-846 5035

Blank (B214054-BLK1)

Prepared & Analyzed: 10/05/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							R-05
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0485		mg/Kg wet	0.0500		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/Kg wet	0.0500		98.4	70-130			

LCS (B214054-BS1)

Prepared & Analyzed: 10/05/18

Acetone	0.453	0.10	mg/Kg wet	0.200		227 *	40-160			L-07A, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130			
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Bromobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
Bromochloromethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			R-05
Bromodichloromethane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
Bromoform	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Bromomethane	0.0117	0.010	mg/Kg wet	0.0200		58.5	40-160			R-05, V-34, L-14 †
2-Butanone (MEK)	0.324	0.040	mg/Kg wet	0.200		162 *	40-160			L-07A, R-05 †
n-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
Carbon Disulfide	0.0196	0.0060	mg/Kg wet	0.0200		98.1	70-130			
Carbon Tetrachloride	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
Chlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		99.8	70-130			
Chloroethane	0.0164	0.010	mg/Kg wet	0.0200		82.0	70-130			
Chloroform	0.0190	0.0040	mg/Kg wet	0.0200		95.0	70-130			
Chloromethane	0.0168	0.010	mg/Kg wet	0.0200		83.8	40-160			†
2-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dibromoethane (EDB)	0.0195	0.0010	mg/Kg wet	0.0200		97.4	70-130			
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			R-05
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
1,3-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,4-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214054 - SW-846 5035										
LCS (B214054-BS1)										
				Prepared & Analyzed: 10/05/18						
Dichlorodifluoromethane (Freon 12)	0.0166	0.010	mg/Kg wet	0.0200		83.2	40-160			†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,2-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
1,1-Dichloroethylene	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130			
cis-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
trans-1,2-Dichloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
2,2-Dichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
1,1-Dichloropropene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
cis-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
trans-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		96.9	70-130			
Diethyl Ether	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.0200		93.6	70-130			
1,4-Dioxane	0.228	0.10	mg/Kg wet	0.200		114	40-160			V-16, V-36 †
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Hexachlorobutadiene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
2-Hexanone (MBK)	0.274	0.020	mg/Kg wet	0.200		137	40-160			L-14, R-05 †
Isopropylbenzene (Cumene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
p-Isopropyltoluene (p-Cymene)	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		98.0	70-130			
Methylene Chloride	0.0199	0.010	mg/Kg wet	0.0200		99.7	70-130			
4-Methyl-2-pentanone (MIBK)	0.207	0.020	mg/Kg wet	0.200		103	40-160			†
Naphthalene	0.0180	0.0040	mg/Kg wet	0.0200		89.8	70-130			
n-Propylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1,2-Tetrachloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,2,2-Tetrachloroethane	0.0187	0.0010	mg/Kg wet	0.0200		93.7	70-130			
Tetrachloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Tetrahydrofuran	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130			V-16
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,2,4-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			R-05
1,1,1-Trichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,2-Trichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0173	0.010	mg/Kg wet	0.0200		86.7	70-130			
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			V-20
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Vinyl Chloride	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130			
m+p Xylene	0.0387	0.0040	mg/Kg wet	0.0400		96.6	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214054 - SW-846 5035										
LCS Dup (B214054-BSD1)										
Prepared & Analyzed: 10/05/18										
Acetone	0.316	0.10	mg/Kg wet	0.200		158	40-160	35.6 *	20	L-14, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0165	0.0010	mg/Kg wet	0.0200		82.6	70-130	14.4	20	
Benzene	0.0158	0.0020	mg/Kg wet	0.0200		79.2	70-130	15.1	20	
Bromobenzene	0.0168	0.0020	mg/Kg wet	0.0200		84.2	70-130	11.7	20	
Bromochloromethane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130	25.6 *	20	R-05
Bromodichloromethane	0.0159	0.0020	mg/Kg wet	0.0200		79.3	70-130	12.8	20	
Bromoform	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130	13.0	20	
Bromomethane	0.00938	0.010	mg/Kg wet	0.0200		46.9	40-160	22.0 *	20	L-14, R-05, V-34 †
2-Butanone (MEK)	0.241	0.040	mg/Kg wet	0.200		120	40-160	29.5 *	20	R-05 †
n-Butylbenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.2	70-130	14.1	20	
sec-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.9	70-130	17.1	20	
tert-Butylbenzene	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130	13.6	20	
tert-Butyl Ethyl Ether (TBEE)	0.0163	0.0010	mg/Kg wet	0.0200		81.5	70-130	15.2	20	
Carbon Disulfide	0.0166	0.0060	mg/Kg wet	0.0200		82.9	70-130	16.8	20	
Carbon Tetrachloride	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	13.6	20	
Chlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	12.1	20	
Chlorodibromomethane	0.0177	0.0010	mg/Kg wet	0.0200		88.5	70-130	12.0	20	
Chloroethane	0.0153	0.010	mg/Kg wet	0.0200		76.3	70-130	7.20	20	
Chloroform	0.0163	0.0040	mg/Kg wet	0.0200		81.5	70-130	15.3	20	
Chloromethane	0.0150	0.010	mg/Kg wet	0.0200		74.8	40-160	11.3	20	†
2-Chlorotoluene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130	8.48	20	
4-Chlorotoluene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	13.1	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	15.7	20	
1,2-Dibromoethane (EDB)	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	12.2	20	
Dibromomethane	0.0167	0.0020	mg/Kg wet	0.0200		83.5	70-130	21.3 *	20	R-05
1,2-Dichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	11.9	20	
1,3-Dichlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130	14.1	20	
1,4-Dichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130	10.7	20	
Dichlorodifluoromethane (Freon 12)	0.0142	0.010	mg/Kg wet	0.0200		71.2	40-160	15.5	20	†
1,1-Dichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		82.9	70-130	12.9	20	
1,2-Dichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130	11.8	20	
1,1-Dichloroethylene	0.0159	0.0040	mg/Kg wet	0.0200		79.7	70-130	15.3	20	
cis-1,2-Dichloroethylene	0.0158	0.0020	mg/Kg wet	0.0200		78.9	70-130	12.9	20	
trans-1,2-Dichloroethylene	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	13.4	20	
1,2-Dichloropropane	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130	15.7	20	
1,3-Dichloropropane	0.0170	0.0010	mg/Kg wet	0.0200		85.0	70-130	11.4	20	
2,2-Dichloropropane	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-130	17.2	20	
1,1-Dichloropropene	0.0163	0.0020	mg/Kg wet	0.0200		81.3	70-130	19.0	20	
cis-1,3-Dichloropropene	0.0168	0.0010	mg/Kg wet	0.0200		84.1	70-130	13.3	20	
trans-1,3-Dichloropropene	0.0170	0.0010	mg/Kg wet	0.0200		85.1	70-130	13.0	20	
Diethyl Ether	0.0165	0.010	mg/Kg wet	0.0200		82.4	70-130	12.9	20	
Diisopropyl Ether (DIPE)	0.0164	0.0010	mg/Kg wet	0.0200		81.8	70-130	13.5	20	
1,4-Dioxane	0.243	0.10	mg/Kg wet	0.200		121	40-160	6.25	20	V-16, V-36 †
Ethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	12.8	20	
Hexachlorobutadiene	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130	14.1	20	
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160	26.3 *	20	R-05 †
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	11.7	20	
p-Isopropyltoluene (p-Cymene)	0.0162	0.0020	mg/Kg wet	0.0200		80.9	70-130	15.2	20	
Methyl tert-Butyl Ether (MTBE)	0.0176	0.0040	mg/Kg wet	0.0200		87.9	70-130	10.9	20	
Methylene Chloride	0.0176	0.010	mg/Kg wet	0.0200		88.2	70-130	12.2	20	
4-Methyl-2-pentanone (MIBK)	0.185	0.020	mg/Kg wet	0.200		92.3	40-160	11.3	20	†
Naphthalene	0.0156	0.0040	mg/Kg wet	0.0200		78.0	70-130	14.1	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214054 - SW-846 5035										
LCS Dup (B214054-BSD1)										
Prepared & Analyzed: 10/05/18										
n-Propylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130	10.9	20	
Styrene	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130	13.2	20	
1,1,1,2-Tetrachloroethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	13.6	20	
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.4	70-130	4.70	20	
Tetrachloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130	7.59	20	
Tetrahydrofuran	0.0161	0.010	mg/Kg wet	0.0200		80.4	70-130	16.1	20	V-16
Toluene	0.0157	0.0020	mg/Kg wet	0.0200		78.4	70-130	13.4	20	
1,2,3-Trichlorobenzene	0.0158	0.0020	mg/Kg wet	0.0200		78.8	70-130	15.8	20	
1,2,4-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		80.2	70-130	25.9 *	20	R-05
1,1,1-Trichloroethane	0.0156	0.0020	mg/Kg wet	0.0200		78.2	70-130	12.9	20	
1,1,2-Trichloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.7	70-130	10.6	20	
Trichloroethylene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	12.1	20	
Trichlorofluoromethane (Freon 11)	0.0150	0.010	mg/Kg wet	0.0200		74.9	70-130	14.6	20	
1,2,3-Trichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	3.30	20	V-20
1,2,4-Trimethylbenzene	0.0155	0.0020	mg/Kg wet	0.0200		77.6	70-130	17.5	20	
1,3,5-Trimethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.6	70-130	10.6	20	
Vinyl Chloride	0.0145	0.010	mg/Kg wet	0.0200		72.3	70-130	15.4	20	
m+p Xylene	0.0343	0.0040	mg/Kg wet	0.0400		85.6	70-130	12.1	20	
o-Xylene	0.0166	0.0020	mg/Kg wet	0.0200		82.8	70-130	15.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214109 - SW-846 3546										
Blank (B214109-BLK1)										
					Prepared: 10/05/18 Analyzed: 10/08/18					
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-20
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							V-20
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214109 - SW-846 3546										
Blank (B214109-BLK1)										
Prepared: 10/05/18 Analyzed: 10/08/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.70		mg/Kg wet	6.67		70.4	30-130			
Surrogate: Phenol-d6	5.07		mg/Kg wet	6.67		76.0	30-130			
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: 2,4,6-Tribromophenol	6.10		mg/Kg wet	6.67		91.5	30-130			
Surrogate: p-Terphenyl-d14	3.05		mg/Kg wet	3.33		91.5	30-130			
LCS (B214109-BS1)										
Prepared: 10/05/18 Analyzed: 10/08/18										
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Acetophenone	1.16	0.34	mg/Kg wet	1.67		69.3	40-140			
Aniline	0.816	0.34	mg/Kg wet	1.67		49.0	40-140			V-05
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140			
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Benzo(b)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Bis(2-chloroethyl)ether	1.00	0.34	mg/Kg wet	1.67		60.1	40-140			
Bis(2-chloroisopropyl)ether	1.02	0.34	mg/Kg wet	1.67		61.3	40-140			V-05
Bis(2-Ethylhexyl)phthalate	1.20	0.34	mg/Kg wet	1.67		72.1	40-140			
4-Bromophenylphenylether	1.33	0.34	mg/Kg wet	1.67		79.9	40-140			
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.8	40-140			
4-Chloroaniline	0.982	0.66	mg/Kg wet	1.67		58.9	15-140			V-34 †
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140			
2-Chlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6	30-130			
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
1,2-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.6	40-140			
1,3-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
1,4-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
3,3-Dichlorobenzidine	1.53	0.17	mg/Kg wet	1.67		91.9	40-140			V-06
2,4-Dichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.3	30-130			
Diethylphthalate	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
2,4-Dimethylphenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130			
Dimethylphthalate	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
2,4-Dinitrophenol	1.25	0.66	mg/Kg wet	1.67		75.0	15-140			V-19 †
2,4-Dinitrotoluene	1.38	0.34	mg/Kg wet	1.67		82.9	40-140			
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140			
Di-n-octylphthalate	1.21	0.34	mg/Kg wet	1.67		72.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
Fluorene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214109 - SW-846 3546

LCS (B214109-BS1)

Prepared: 10/05/18 Analyzed: 10/08/18

Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140			
Hexachlorobutadiene	1.41	0.34	mg/Kg wet	1.67		84.7	40-140			V-06
Hexachloroethane	1.07	0.34	mg/Kg wet	1.67		64.3	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140			
Isophorone	1.23	0.34	mg/Kg wet	1.67		73.8	40-140			
2-Methylnaphthalene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140			
2-Methylphenol	1.05	0.34	mg/Kg wet	1.67		63.1	30-130			
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.4	30-130			
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Nitrobenzene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140			
2-Nitrophenol	1.33	0.34	mg/Kg wet	1.67		80.1	30-130			
4-Nitrophenol	1.23	0.66	mg/Kg wet	1.67		74.0	15-140			†
Pentachlorophenol	1.25	0.34	mg/Kg wet	1.67		75.1	30-130			
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Phenol	1.06	0.34	mg/Kg wet	1.67		63.5	15-140			†
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140			
Pyridine	0.732	0.34	mg/Kg wet	1.67		43.9	30-140			V-05 †
1,2,4-Trichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.6	40-140			
2,4,5-Trichlorophenol	1.29	0.34	mg/Kg wet	1.67		77.7	30-130			
2,4,6-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.1	30-130			
Surrogate: 2-Fluorophenol	4.65		mg/Kg wet	6.67		69.8	30-130			
Surrogate: Phenol-d6	4.75		mg/Kg wet	6.67		71.2	30-130			
Surrogate: Nitrobenzene-d5	2.46		mg/Kg wet	3.33		73.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.96		mg/Kg wet	6.67		89.4	30-130			
Surrogate: p-Terphenyl-d14	2.83		mg/Kg wet	3.33		85.0	30-130			

LCS Dup (B214109-BS1)

Prepared: 10/05/18 Analyzed: 10/08/18

Acenaphthene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	6.02	30	
Acenaphthylene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	3.77	30	
Acetophenone	1.21	0.34	mg/Kg wet	1.67		72.3	40-140	4.21	30	
Aniline	0.839	0.34	mg/Kg wet	1.67		50.4	40-140	2.82	30	V-05
Anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	2.66	30	
Benzo(a)anthracene	1.37	0.17	mg/Kg wet	1.67		81.9	40-140	6.22	30	
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.6	40-140	5.93	30	
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	5.14	30	
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	1.42	30	
Benzo(k)fluoranthene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140	6.76	30	
Bis(2-chloroethoxy)methane	1.32	0.34	mg/Kg wet	1.67		78.9	40-140	3.19	30	
Bis(2-chloroethyl)ether	1.05	0.34	mg/Kg wet	1.67		63.3	40-140	5.16	30	
Bis(2-chloroisopropyl)ether	1.05	0.34	mg/Kg wet	1.67		63.1	40-140	2.77	30	V-05
Bis(2-Ethylhexyl)phthalate	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	9.13	30	
4-Bromophenylphenylether	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	0.100	30	
Butylbenzylphthalate	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	6.66	30	
4-Chloroaniline	0.994	0.66	mg/Kg wet	1.67		59.7	15-140	1.21	30	V-34 †
2-Chloronaphthalene	1.11	0.34	mg/Kg wet	1.67		66.3	40-140	2.24	30	
2-Chlorophenol	1.19	0.34	mg/Kg wet	1.67		71.1	30-130	2.19	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	8.36	30	
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	3.30	30	
Dibenzofuran	1.34	0.34	mg/Kg wet	1.67		80.2	40-140	8.75	30	
Di-n-butylphthalate	1.32	0.34	mg/Kg wet	1.67		79.1	40-140	7.36	30	
1,2-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140	0.384	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214109 - SW-846 3546										
LCS Dup (B214109-BSD1)										
					Prepared: 10/05/18 Analyzed: 10/08/18					
1,3-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	1.45	30	
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.3	40-140	1.27	30	
3,3-Dichlorobenzidine	1.59	0.17	mg/Kg wet	1.67		95.3	40-140	3.61	30	V-06
2,4-Dichlorophenol	1.35	0.34	mg/Kg wet	1.67		81.1	30-130	3.51	30	
Diethylphthalate	1.38	0.34	mg/Kg wet	1.67		82.7	40-140	10.0	30	
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.4	30-130	5.55	30	
Dimethylphthalate	1.36	0.34	mg/Kg wet	1.67		81.5	40-140	8.44	30	
2,4-Dinitrophenol	1.46	0.66	mg/Kg wet	1.67		87.9	15-140	15.8	30	V-19 †
2,4-Dinitrotoluene	1.53	0.34	mg/Kg wet	1.67		91.6	40-140	9.97	30	
2,6-Dinitrotoluene	1.52	0.34	mg/Kg wet	1.67		91.4	40-140	8.96	30	
Di-n-octylphthalate	1.31	0.34	mg/Kg wet	1.67		78.8	40-140	8.30	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	1.63	30	
Fluoranthene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140	5.49	30	
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	6.79	30	
Hexachlorobenzene	1.38	0.34	mg/Kg wet	1.67		83.1	40-140	0.384	30	
Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	2.75	30	V-06
Hexachloroethane	1.07	0.34	mg/Kg wet	1.67		64.5	40-140	0.248	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	1.98	30	
Isophorone	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	1.61	30	
2-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140	0.534	30	
2-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.6	30-130	2.44	30	
3/4-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.0	30-130	8.00	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	0.0548	30	
Nitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	0.637	30	
2-Nitrophenol	1.33	0.34	mg/Kg wet	1.67		79.8	30-130	0.375	30	
4-Nitrophenol	1.40	0.66	mg/Kg wet	1.67		84.0	15-140	12.6	30	†
Pentachlorophenol	1.35	0.34	mg/Kg wet	1.67		81.1	30-130	7.66	30	
Phenanthrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	2.29	30	
Phenol	1.11	0.34	mg/Kg wet	1.67		66.3	15-140	4.41	30	†
Pyrene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	5.63	30	
Pyridine	0.682	0.34	mg/Kg wet	1.67		40.9	30-140	7.07	30	V-05 †
1,2,4-Trichlorobenzene	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	1.18	30	
2,4,5-Trichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130	8.03	30	
2,4,6-Trichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.1	30-130	2.53	30	
Surrogate: 2-Fluorophenol	4.71		mg/Kg wet	6.67		70.6	30-130			
Surrogate: Phenol-d6	4.94		mg/Kg wet	6.67		74.1	30-130			
Surrogate: Nitrobenzene-d5	2.40		mg/Kg wet	3.33		72.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.73		mg/Kg wet	3.33		81.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.80		mg/Kg wet	6.67		102	30-130			
Surrogate: p-Terphenyl-d14	3.06		mg/Kg wet	3.33		91.7	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214106 - SW-846 3546

Blank (B214106-BLK1)

Prepared: 10/05/18 Analyzed: 10/08/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0020	mg/Kg wet							
Aldrin [2C]	ND	0.0020	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0010	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDE	ND	0.0010	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDT	ND	0.0010	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0010	mg/Kg wet							
Dieldrin	ND	0.0020	mg/Kg wet							
Dieldrin [2C]	ND	0.0020	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.148		mg/Kg wet	0.200		74.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214106 - SW-846 3546										
LCS (B214106-BS1)										
					Prepared: 10/05/18 Analyzed: 10/08/18					
alpha-Chlordane	0.073	0.0050	mg/Kg wet	0.100		72.9	40-140			
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.8	40-140			
gamma-Chlordane	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140			
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		78.9	40-140			
Alachlor	0.074	0.020	mg/Kg wet	0.100		74.0	40-140			
Alachlor [2C]	0.078	0.020	mg/Kg wet	0.100		77.9	40-140			
Aldrin	0.072	0.0020	mg/Kg wet	0.100		72.1	40-140			
Aldrin [2C]	0.079	0.0020	mg/Kg wet	0.100		79.2	40-140			
alpha-BHC	0.072	0.0050	mg/Kg wet	0.100		71.7	40-140			
alpha-BHC [2C]	0.075	0.0050	mg/Kg wet	0.100		75.0	40-140			
beta-BHC	0.068	0.0050	mg/Kg wet	0.100		67.5	40-140			
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		71.4	40-140			
delta-BHC	0.066	0.0050	mg/Kg wet	0.100		65.8	40-140			
delta-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.2	40-140			
gamma-BHC (Lindane)	0.072	0.0020	mg/Kg wet	0.100		72.3	40-140			
gamma-BHC (Lindane) [2C]	0.073	0.0020	mg/Kg wet	0.100		72.8	40-140			
4,4'-DDD	0.080	0.0010	mg/Kg wet	0.100		79.7	40-140			
4,4'-DDD [2C]	0.084	0.0010	mg/Kg wet	0.100		84.2	40-140			
4,4'-DDE	0.076	0.0010	mg/Kg wet	0.100		75.8	40-140			
4,4'-DDE [2C]	0.083	0.0010	mg/Kg wet	0.100		82.8	40-140			
4,4'-DDT	0.080	0.0010	mg/Kg wet	0.100		80.3	40-140			
4,4'-DDT [2C]	0.076	0.0010	mg/Kg wet	0.100		75.9	40-140			
Dieldrin	0.075	0.0020	mg/Kg wet	0.100		75.4	40-140			
Dieldrin [2C]	0.082	0.0020	mg/Kg wet	0.100		82.4	40-140			
Endosulfan I	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140			
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.3	40-140			
Endosulfan II	0.077	0.0080	mg/Kg wet	0.100		77.4	40-140			
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		81.0	40-140			
Endosulfan Sulfate	0.080	0.0080	mg/Kg wet	0.100		80.1	40-140			
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		79.7	40-140			
Endrin	0.076	0.0080	mg/Kg wet	0.100		75.5	40-140			
Endrin [2C]	0.079	0.0080	mg/Kg wet	0.100		79.3	40-140			
Endrin Aldehyde	0.086	0.0080	mg/Kg wet	0.100		85.5	40-140			
Endrin Aldehyde [2C]	0.084	0.0080	mg/Kg wet	0.100		84.2	40-140			
Endrin Ketone	0.080	0.0080	mg/Kg wet	0.100		80.2	40-140			
Endrin Ketone [2C]	0.079	0.0080	mg/Kg wet	0.100		79.1	40-140			
Heptachlor	0.056	0.0050	mg/Kg wet	0.100		56.4	40-140			
Heptachlor [2C]	0.077	0.0050	mg/Kg wet	0.100		77.4	40-140			
Heptachlor Epoxide	0.073	0.0050	mg/Kg wet	0.100		73.0	40-140			
Heptachlor Epoxide [2C]	0.078	0.0050	mg/Kg wet	0.100		77.9	40-140			
Hexachlorobenzene	0.071	0.0060	mg/Kg wet	0.100		71.3	40-140			
Hexachlorobenzene [2C]	0.078	0.0060	mg/Kg wet	0.100		78.2	40-140			
Methoxychlor	0.080	0.050	mg/Kg wet	0.100		79.8	40-140			
Methoxychlor [2C]	0.082	0.050	mg/Kg wet	0.100		82.5	40-140			
Surrogate: Decachlorobiphenyl	0.149		mg/Kg wet	0.200		74.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.145		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.165		mg/Kg wet	0.200		82.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214106 - SW-846 3546										
LCS Dup (B214106-BSD1)										
					Prepared: 10/05/18 Analyzed: 10/08/18					
alpha-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	3.21	30	
alpha-Chlordane [2C]	0.083	0.0050	mg/Kg wet	0.100		82.8	40-140	4.96	30	
gamma-Chlordane	0.075	0.0050	mg/Kg wet	0.100		75.0	40-140	4.05	30	
gamma-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140	5.79	30	
Alachlor	0.075	0.020	mg/Kg wet	0.100		75.2	40-140	1.68	30	
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		81.1	40-140	4.01	30	
Aldrin	0.075	0.0020	mg/Kg wet	0.100		75.1	40-140	4.03	30	
Aldrin [2C]	0.084	0.0020	mg/Kg wet	0.100		84.4	40-140	6.40	30	
alpha-BHC	0.075	0.0050	mg/Kg wet	0.100		75.0	40-140	4.42	30	
alpha-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.4	40-140	6.94	30	
beta-BHC	0.071	0.0050	mg/Kg wet	0.100		71.3	40-140	5.46	30	
beta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.1	40-140	6.40	30	
delta-BHC	0.067	0.0050	mg/Kg wet	0.100		67.3	40-140	2.35	30	
delta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	5.60	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.6	40-140	3.12	30	
gamma-BHC (Lindane) [2C]	0.083	0.0020	mg/Kg wet	0.100		82.7	40-140	12.8	30	
4,4'-DDD	0.082	0.0010	mg/Kg wet	0.100		81.8	40-140	2.58	30	
4,4'-DDD [2C]	0.088	0.0010	mg/Kg wet	0.100		87.6	40-140	3.89	30	
4,4'-DDE	0.079	0.0010	mg/Kg wet	0.100		78.8	40-140	3.86	30	
4,4'-DDE [2C]	0.086	0.0010	mg/Kg wet	0.100		86.5	40-140	4.36	30	
4,4'-DDT	0.082	0.0010	mg/Kg wet	0.100		81.5	40-140	1.55	30	
4,4'-DDT [2C]	0.077	0.0010	mg/Kg wet	0.100		77.2	40-140	1.72	30	
Dieldrin	0.077	0.0020	mg/Kg wet	0.100		76.7	40-140	1.66	30	
Dieldrin [2C]	0.086	0.0020	mg/Kg wet	0.100		85.7	40-140	3.95	30	
Endosulfan I	0.076	0.0050	mg/Kg wet	0.100		76.1	40-140	1.02	30	
Endosulfan I [2C]	0.083	0.0050	mg/Kg wet	0.100		83.4	40-140	2.55	30	
Endosulfan II	0.079	0.0080	mg/Kg wet	0.100		79.0	40-140	1.99	30	
Endosulfan II [2C]	0.084	0.0080	mg/Kg wet	0.100		84.1	40-140	3.73	30	
Endosulfan Sulfate	0.080	0.0080	mg/Kg wet	0.100		79.8	40-140	0.294	30	
Endosulfan Sulfate [2C]	0.082	0.0080	mg/Kg wet	0.100		81.7	40-140	2.47	30	
Endrin	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	1.93	30	
Endrin [2C]	0.082	0.0080	mg/Kg wet	0.100		81.9	40-140	3.14	30	
Endrin Aldehyde	0.088	0.0080	mg/Kg wet	0.100		87.7	40-140	2.49	30	
Endrin Aldehyde [2C]	0.088	0.0080	mg/Kg wet	0.100		87.8	40-140	4.18	30	
Endrin Ketone	0.080	0.0080	mg/Kg wet	0.100		79.6	40-140	0.732	30	
Endrin Ketone [2C]	0.080	0.0080	mg/Kg wet	0.100		80.1	40-140	1.20	30	
Heptachlor	0.058	0.0050	mg/Kg wet	0.100		57.7	40-140	2.32	30	
Heptachlor [2C]	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140	5.05	30	
Heptachlor Epoxide	0.075	0.0050	mg/Kg wet	0.100		74.7	40-140	2.40	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		81.9	40-140	5.03	30	
Hexachlorobenzene	0.074	0.0060	mg/Kg wet	0.100		73.6	40-140	3.11	30	
Hexachlorobenzene [2C]	0.083	0.0060	mg/Kg wet	0.100		83.0	40-140	5.96	30	
Methoxychlor	0.080	0.050	mg/Kg wet	0.100		79.6	40-140	0.244	30	
Methoxychlor [2C]	0.083	0.050	mg/Kg wet	0.100		83.5	40-140	1.23	30	
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.200		75.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.160		mg/Kg wet	0.200		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214105 - SW-846 3546										
Blank (B214105-BLK1)										
Prepared: 10/05/18 Analyzed: 10/08/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.2	30-150			
LCS (B214105-BS1)										
Prepared: 10/05/18 Analyzed: 10/08/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.9	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140			
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.7	30-150			
LCS Dup (B214105-BSD1)										
Prepared: 10/05/18 Analyzed: 10/08/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.6	40-140	0.451	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	0.143	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.1	40-140	1.30	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	1.97	30	
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.160		mg/Kg wet	0.200		80.1	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213836 - SW-846 8151										
Blank (B213836-BLK1)										
Prepared: 10/03/18 Analyzed: 10/10/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							V-05
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							V-05
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	71.9		µg/kg wet	95.2		75.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	70.3		µg/kg wet	95.2		73.8	30-150			
LCS (B213836-BS1)										
Prepared: 10/03/18 Analyzed: 10/10/18										
2,4-D	96.5	25	µg/kg wet	125		77.2	40-140			
2,4-D [2C]	97.4	25	µg/kg wet	125		77.9	40-140			
2,4-DB	99.0	25	µg/kg wet	125		79.2	40-140			
2,4-DB [2C]	99.1	25	µg/kg wet	125		79.2	40-140			
2,4,5-TP (Silvex)	9.49	2.5	µg/kg wet	12.5		75.9	40-140			
2,4,5-TP (Silvex) [2C]	9.87	2.5	µg/kg wet	12.5		78.9	40-140			
2,4,5-T	9.83	2.5	µg/kg wet	12.5		78.6	40-140			
2,4,5-T [2C]	10.1	2.5	µg/kg wet	12.5		80.6	40-140			
Dalapon	153	62	µg/kg wet	312		48.9	40-140			
Dalapon [2C]	165	62	µg/kg wet	312		52.7	40-140			
Dicamba	9.38	2.5	µg/kg wet	12.5		75.0	40-140			
Dicamba [2C]	9.70	2.5	µg/kg wet	12.5		77.6	40-140			
Dichloroprop	97.2	25	µg/kg wet	125		77.7	40-140			
Dichloroprop [2C]	98.4	25	µg/kg wet	125		78.7	40-140			
Dinoseb	15.8	12	µg/kg wet	62.5		25.2	0-42.4			
Dinoseb [2C]	17.9	12	µg/kg wet	62.5		28.6	0-41.1			
MCPA	8860	2500	µg/kg wet	12500		70.9	40-140			
MCPA [2C]	8770	2500	µg/kg wet	12500		70.2	40-140			
MCPP	9300	2500	µg/kg wet	12500		74.4	40-140			
MCPP [2C]	9150	2500	µg/kg wet	12500		73.2	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	76.2		µg/kg wet	100		76.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	72.7		µg/kg wet	100		72.7	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213836 - SW-846 8151										
LCS Dup (B213836-BSD1)										
					Prepared: 10/03/18 Analyzed: 10/10/18					
2,4-D	116	25	µg/kg wet	125		92.5	40-140	18.0	30	
2,4-D [2C]	120	25	µg/kg wet	125		95.8	40-140	20.6	30	
2,4-DB	122	25	µg/kg wet	125		97.5	40-140	20.7	30	
2,4-DB [2C]	120	25	µg/kg wet	125		96.2	40-140	19.3	30	V-05
2,4,5-TP (Silvex)	11.3	2.5	µg/kg wet	12.5		90.3	40-140	17.4	30	
2,4,5-TP (Silvex) [2C]	12.3	2.5	µg/kg wet	12.5		98.6	40-140	22.2	30	
2,4,5-T	11.1	2.5	µg/kg wet	12.5		89.0	40-140	12.4	30	
2,4,5-T [2C]	12.4	2.5	µg/kg wet	12.5		99.4	40-140	20.9	30	V-05
Dalapon	194	62	µg/kg wet	312		61.9	40-140	23.5	30	
Dalapon [2C]	196	62	µg/kg wet	312		62.6	40-140	17.2	30	
Dicamba	11.8	2.5	µg/kg wet	12.5		94.1	40-140	22.6	30	
Dicamba [2C]	12.1	2.5	µg/kg wet	12.5		96.9	40-140	22.1	30	
Dichloroprop	118	25	µg/kg wet	125		94.8	40-140	19.7	30	
Dichloroprop [2C]	120	25	µg/kg wet	125		96.2	40-140	20.0	30	
Dinoseb	19.9	12	µg/kg wet	62.5		31.9	0-42.4	23.5	30	
Dinoseb [2C]	20.5	12	µg/kg wet	62.5		32.8	0-41.1	13.5	30	
MCPA	11200	2500	µg/kg wet	12500		89.9	40-140	23.7	30	
MCPA [2C]	10700	2500	µg/kg wet	12500		85.5	40-140	19.6	30	
MCPP	11700	2500	µg/kg wet	12500		93.5	40-140	22.8	30	
MCPP [2C]	11300	2500	µg/kg wet	12500		90.1	40-140	20.8	30	
Surrogate: 2,4-Dichlorophenylacetic acid	94.9		µg/kg wet	100		94.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	89.8		µg/kg wet	100		89.8	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214108 - SW-846 3546										
Blank (B214108-BLK1)										
					Prepared: 10/05/18 Analyzed: 10/07/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.95		mg/Kg wet	3.33		88.5	40-140			
LCS (B214108-BS1)										
					Prepared: 10/05/18 Analyzed: 10/07/18					
TPH (C9-C36)	26.9	8.3	mg/Kg wet	33.3		80.6	40-140			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.4	40-140			
LCS Dup (B214108-BSD1)										
					Prepared: 10/05/18 Analyzed: 10/07/18					
TPH (C9-C36)	26.1	8.3	mg/Kg wet	33.3		78.4	40-140	2.76	30	
Surrogate: 2-Fluorobiphenyl	2.33		mg/Kg wet	3.33		69.8	40-140			

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B214355 - SW-846 3050B

Blank (B214355-BLK1)

Prepared: 10/09/18 Analyzed: 10/10/18

Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

LCS (B214355-BS1)

Prepared: 10/09/18 Analyzed: 10/10/18

Antimony	59.1	5.1	mg/Kg wet	75.5		78.3	3.8-196			
Arsenic	157	5.1	mg/Kg wet	161		97.4	83.2-116.8			
Barium	258	5.1	mg/Kg wet	260		99.3	82.7-117.3			
Beryllium	97.9	0.51	mg/Kg wet	97.6		100	83.4-116.8			
Cadmium	208	0.51	mg/Kg wet	211		98.8	83.4-116.6			
Chromium	136	1.0	mg/Kg wet	136		99.7	82.4-117.6			
Lead	105	1.5	mg/Kg wet	111		94.5	83-117.1			
Nickel	90.1	1.0	mg/Kg wet	91.9		98.1	82.9-117.5			
Selenium	179	10	mg/Kg wet	191		93.9	79.6-120.9			
Silver	44.6	1.0	mg/Kg wet	43.3		103	79.9-119.9			
Thallium	166	5.1	mg/Kg wet	156		106	81.4-119.2			
Vanadium	52.6	2.0	mg/Kg wet	56.7		92.8	79-121.2			
Zinc	194	2.0	mg/Kg wet	199		97.7	81.4-119.1			

LCS Dup (B214355-BSD1)

Prepared: 10/09/18 Analyzed: 10/10/18

Antimony	60.9	5.1	mg/Kg wet	75.5		80.7	3.8-196	2.98	30	
Arsenic	155	5.1	mg/Kg wet	161		96.2	83.2-116.8	1.18	30	
Barium	254	5.1	mg/Kg wet	260		97.7	82.7-117.3	1.67	30	
Beryllium	95.1	0.51	mg/Kg wet	97.6		97.4	83.4-116.8	2.92	30	
Cadmium	203	0.51	mg/Kg wet	211		96.0	83.4-116.6	2.88	30	
Chromium	134	1.0	mg/Kg wet	136		98.4	82.4-117.6	1.36	30	
Lead	112	1.5	mg/Kg wet	111		101	83-117.1	6.75	30	
Nickel	88.5	1.0	mg/Kg wet	91.9		96.3	82.9-117.5	1.80	30	
Selenium	176	10	mg/Kg wet	191		92.0	79.6-120.9	1.98	30	
Silver	44.2	1.0	mg/Kg wet	43.3		102	79.9-119.9	1.10	30	
Thallium	157	5.1	mg/Kg wet	156		101	81.4-119.2	5.32	30	
Vanadium	51.9	2.0	mg/Kg wet	56.7		91.6	79-121.2	1.34	30	
Zinc	193	2.0	mg/Kg wet	199		97.1	81.4-119.1	0.638	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214355 - SW-846 3050B										
MRL Check (B214355-MRL1)					Prepared: 10/09/18 Analyzed: 10/10/18					
Lead	0.506	0.50	mg/Kg wet	0.498		101	80-120			
Batch B214378 - SW-846 7471										
Blank (B214378-BLK1)					Prepared: 10/09/18 Analyzed: 10/10/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B214378-BS1)					Prepared: 10/09/18 Analyzed: 10/10/18					
Mercury	12.6	1.9	mg/Kg wet	11.5		110	71.6-127.8			
LCS Dup (B214378-BSD1)					Prepared: 10/09/18 Analyzed: 10/10/18					
Mercury	11.6	1.9	mg/Kg wet	11.5		101	71.6-127.8	7.92	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213948 - SW-846 9045C										
LCS (B213948-BS1)				Prepared & Analyzed: 10/03/18						
pH	6.01		pH Units	6.00		100	90-110			
LCS (B213948-BS2)				Prepared & Analyzed: 10/03/18						
pH	6.03		pH Units	6.00		100	90-110			
Duplicate (B213948-DUP1)				Source: 18J0192-01		Prepared & Analyzed: 10/03/18				
pH	5.8		pH Units		5.8			0.758	5	H-03
Batch B214147 - SW-846 9014										
Blank (B214147-BLK1)				Prepared: 10/06/18 Analyzed: 10/08/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B214147-BS1)				Prepared: 10/06/18 Analyzed: 10/08/18						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	83.6-111			
Batch B214197 - SW-846 9030A										
Blank (B214197-BLK1)				Prepared: 10/06/18 Analyzed: 10/08/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B214197-BS1)				Prepared: 10/06/18 Analyzed: 10/08/18						
Reactive Sulfide	12	2.0	mg/Kg	14.8		83.8	54.9-121			
Batch B214430 - SM21-22 2510B Modified										
Blank (B214430-BLK1)				Prepared & Analyzed: 10/10/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B214430-BS1)				Prepared & Analyzed: 10/10/18						
Specific conductance	190		µmhos/cm	192		99.3	90-110			
Duplicate (B214430-DUP1)				Source: 18J0192-01		Prepared & Analyzed: 10/10/18				
Specific conductance	5.7	2.0	µmhos/cm		5.7			0.175	21	

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BREAKDOWN REPORT

Lab Sample ID: S028135-PEM1 **Analyzed:** 10/08/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.52
Endrin [1] 3.06

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.54
Endrin [2] 3.16

BREAKDOWN REPORT

Lab Sample ID: S028135-PEM2 **Analyzed:** 10/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.51
Endrin [1] 3.25

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.52
Endrin [2] 3.22

BREAKDOWN REPORT

Lab Sample ID: S028135-PEM3 **Analyzed:** 10/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.56
Endrin [1] 2.76

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BREAKDOWN REPORT

Lab Sample ID: S028135-PEM3 Analyzed: 10/09/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.66
Endrin [2]	2.65

BREAKDOWN REPORT

Lab Sample ID: S028135-PEM4 Analyzed: 10/09/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.22
Endrin [1]	2.59

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.24
Endrin [2]	2.42

BREAKDOWN REPORT

Lab Sample ID: S028135-PEM5 Analyzed: 10/10/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.08
Endrin [1]	1.92

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.13
Endrin [2]	1.91

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S028135-PEM6 **Analyzed:** 10/10/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.27
Endrin [1] 1.98

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.25
Endrin [2] 1.88

BREAKDOWN REPORT

Lab Sample ID: S028311-PEM1 **Analyzed:** 10/12/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.47
Endrin [1] 2.11

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.65
Endrin [2] 0.34

BREAKDOWN REPORT

Lab Sample ID: S028311-PEM2 **Analyzed:** 10/13/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.66
Endrin [1] 2.68

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BREAKDOWN REPORT

Lab Sample ID: S028311-PEM2 **Analyzed:** 10/13/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.06
Endrin [2]	0.24

BREAKDOWN REPORT

Lab Sample ID: S028311-PEM3 **Analyzed:** 10/13/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.32
Endrin [1]	2.89

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.09
Endrin [2]	0.49

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8151A

Lab Sample ID: B213836-BS1 Date(s) Analyzed: 10/10/2018 10/10/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	13.649	0.000	0.000	9.83	
	2	13.908	0.000	0.000	10.1	3.0
2,4,5-TP (Silvex)	1	13.071	0.000	0.000	9.49	
	2	13.106	0.000	0.000	9.87	3.8
2,4-D	1	11.409	0.000	0.000	96.5	
	2	11.520	0.000	0.000	97.4	0.4
2,4-DB	1	14.767	0.000	0.000	99.0	
	2	14.974	0.000	0.000	99.1	0.1
Dalapon	1	3.672	0.000	0.000	153	
	2	3.366	0.000	0.000	165	9.5
Dicamba	1	9.576	0.000	0.000	9.38	
	2	9.558	0.000	0.000	9.70	3.1
Dichloroprop	1	10.964	0.000	0.000	97.2	
	2	10.904	0.000	0.000	98.4	1.4
Dinoseb	1	16.726	0.000	0.000	15.8	
	2	15.565	0.000	0.000	17.9	11.2
MCPA	1	10.288	0.000	0.000	8860	
	2	10.302	0.000	0.000	8770	1.5
MCPD	1	10.010	0.000	0.000	9300	
	2	9.868	0.000	0.000	9150	1.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8151A

 Lab Sample ID: B213836-BSD1 Date(s) Analyzed: 10/10/2018 10/10/2018

 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	13.666	0.000	0.000	11.1	
	2	13.909	0.000	0.000	12.4	12.0
2,4,5-TP (Silvex)	1	13.083	0.000	0.000	11.3	
	2	13.108	0.000	0.000	12.3	11.2
2,4-D	1	11.417	0.000	0.000	116	
	2	11.521	0.000	0.000	120	0.0
2,4-DB	1	14.776	0.000	0.000	122	
	2	14.976	0.000	0.000	120	0.0
Dalapon	1	3.678	0.000	0.000	194	
	2	3.373	0.000	0.000	196	3.1
Dicamba	1	9.582	0.000	0.000	11.8	
	2	9.561	0.000	0.000	12.1	0.8
Dichloroprop	1	10.969	0.000	0.000	118	
	2	10.905	0.000	0.000	120	0.0
Dinoseb	1	16.730	0.000	0.000	19.9	
	2	15.566	0.000	0.000	20.5	2.5
MCPA	1	10.295	0.000	0.000	11200	
	2	10.308	0.000	0.000	10700	2.8
MCPD	1	10.015	0.000	0.000	11700	
	2	9.873	0.000	0.000	11300	6.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B214105-BS1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.18	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B214105-BSD1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B214106-BS1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.975	6.945	7.005	0.080	
	2	7.074	7.044	7.104	0.084	4.9
4,4'-DDE	1	6.553	6.523	6.583	0.076	
	2	6.652	6.621	6.681	0.083	8.8
4,4'-DDT	1	7.183	7.154	7.214	0.080	
	2	7.308	7.278	7.338	0.076	5.1
Alachlor	1	6.010	5.981	6.041	0.074	
	2	5.863	5.833	5.893	0.078	5.3
Aldrin	1	5.918	5.889	5.949	0.072	
	2	5.914	5.884	5.944	0.079	9.3
alpha-BHC	1	5.254	5.225	5.285	0.072	
	2	5.249	5.219	5.279	0.075	4.1
alpha-Chlordane	1	6.492	6.463	6.523	0.073	
	2	6.522	6.492	6.552	0.079	7.9
beta-BHC	1	5.489	5.459	5.519	0.068	
	2	5.508	5.476	5.536	0.071	4.3
delta-BHC	1	5.595	5.565	5.625	0.066	
	2	5.682	5.652	5.712	0.072	8.7
Dieldrin	1	6.752	6.722	6.782	0.075	
	2	6.752	6.722	6.782	0.082	8.9
Endosulfan I	1	6.582	6.553	6.613	0.075	
	2	6.558	6.528	6.588	0.081	7.7
Endosulfan II	1	7.077	7.047	7.107	0.077	
	2	7.130	7.100	7.160	0.081	5.1
Endosulfan Sulfate	1	7.716	7.687	7.747	0.080	
	2	7.602	7.572	7.632	0.080	0.0
Endrin	1	6.916	6.886	6.946	0.076	
	2	6.970	6.939	6.999	0.079	3.9
Endrin Aldehyde	1	7.386	7.357	7.417	0.086	
	2	7.387	7.358	7.418	0.084	2.4
Endrin Ketone	1	7.928	7.898	7.958	0.080	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B214106-BS1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.001	7.972	8.032	0.079	1.3
gamma-BHC (Lindane)	1	5.438	5.409	5.469	0.072	
	2	5.453	5.423	5.483	0.073	1.4
gamma-Chlordane	1	6.401	6.371	6.431	0.072	
	2	6.421	6.391	6.451	0.079	9.3
Heptachlor	1	5.728	5.699	5.759	0.056	
	2	5.714	5.684	5.744	0.077	31.6
Heptachlor Epoxide	1	6.315	6.285	6.345	0.073	
	2	6.292	6.262	6.322	0.078	6.6
Hexachlorobenzene	1	5.159	5.129	5.189	0.071	
	2	5.167	5.137	5.197	0.078	9.4
Methoxychlor	1	7.561	7.532	7.592	0.080	
	2	7.857	7.827	7.887	0.082	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B214106-BSD1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.975	6.945	7.005	0.082	
	2	7.074	7.044	7.104	0.088	7.1
4,4'-DDE	1	6.552	6.523	6.583	0.079	
	2	6.651	6.621	6.681	0.086	8.5
4,4'-DDT	1	7.183	7.154	7.214	0.082	
	2	7.308	7.278	7.338	0.077	6.3
Alachlor	1	6.010	5.981	6.041	0.075	
	2	5.863	5.833	5.893	0.081	7.7
Aldrin	1	5.919	5.889	5.949	0.075	
	2	5.913	5.884	5.944	0.084	11.3
alpha-BHC	1	5.254	5.225	5.285	0.075	
	2	5.249	5.219	5.279	0.080	6.5
alpha-Chlordane	1	6.492	6.463	6.523	0.075	
	2	6.522	6.492	6.552	0.083	10.1
beta-BHC	1	5.489	5.459	5.519	0.071	
	2	5.508	5.476	5.536	0.076	6.8
delta-BHC	1	5.595	5.565	5.625	0.067	
	2	5.682	5.652	5.712	0.076	12.6
Dieldrin	1	6.752	6.722	6.782	0.077	
	2	6.752	6.722	6.782	0.086	11.0
Endosulfan I	1	6.583	6.553	6.613	0.076	
	2	6.558	6.528	6.588	0.083	8.8
Endosulfan II	1	7.076	7.047	7.107	0.079	
	2	7.130	7.100	7.160	0.084	6.1
Endosulfan Sulfate	1	7.717	7.687	7.747	0.080	
	2	7.602	7.572	7.632	0.082	2.5
Endrin	1	6.916	6.886	6.946	0.077	
	2	6.969	6.939	6.999	0.082	6.3
Endrin Aldehyde	1	7.387	7.357	7.417	0.088	
	2	7.388	7.358	7.418	0.088	0.0
Endrin Ketone	1	7.928	7.898	7.958	0.080	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B214106-BSD1 Date(s) Analyzed: 10/08/2018 10/08/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.002	7.972	8.032	0.080	0.0
gamma-BHC (Lindane)	1	5.438	5.409	5.469	0.075	
	2	5.453	5.423	5.483	0.083	10.1
gamma-Chlordane	1	6.401	6.371	6.431	0.075	
	2	6.421	6.391	6.451	0.084	11.3
Heptachlor	1	5.729	5.699	5.759	0.058	
	2	5.714	5.684	5.744	0.081	33.1
Heptachlor Epoxide	1	6.315	6.285	6.345	0.075	
	2	6.291	6.262	6.322	0.082	8.9
Hexachlorobenzene	1	5.159	5.129	5.189	0.074	
	2	5.167	5.137	5.197	0.083	11.5
Methoxychlor	1	7.561	7.532	7.592	0.080	
	2	7.857	7.827	7.887	0.083	3.7

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
p-Isopropyltoluene (p-Cymene)	NH, NY
Methyl tert-Butyl Ether (MTBE)	NH, NY
Methylene Chloride	CT, NH, NY, ME
4-Methyl-2-pentanone (MIBK)	CT, NH, NY
Naphthalene	NH, NY, ME
n-Propylbenzene	NH, NY
Styrene	CT, NH, NY, ME
1,1,1,2-Tetrachloroethane	CT, NH, NY, ME
1,1,2,2-Tetrachloroethane	CT, NH, NY, ME
Tetrachloroethylene	CT, NH, NY, ME
Toluene	CT, NH, NY, ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH, NY, ME
1,1,1-Trichloroethane	CT, NH, NY, ME
1,1,2-Trichloroethane	CT, NH, NY, ME
Trichloroethylene	CT, NH, NY, ME
Trichlorofluoromethane (Freon 11)	CT, NH, NY, ME
1,2,3-Trichloropropane	NH, NY, ME
1,2,4-Trimethylbenzene	CT, NH, NY, ME
1,3,5-Trimethylbenzene	CT, NH, NY, ME
Vinyl Chloride	CT, NH, NY, ME
m+p Xylene	CT, NH, NY, ME
o-Xylene	CT, NH, NY, ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT, NY, NH
Acenaphthylene	CT, NY, NH
Acetophenone	NY, NH
Aniline	NY, NH
Anthracene	CT, NY, NH
Benzo(a)anthracene	CT, NY, NH
Benzo(a)pyrene	CT, NY, NH
Benzo(b)fluoranthene	CT, NY, NH
Benzo(g,h,i)perylene	CT, NY, NH
Benzo(k)fluoranthene	CT, NY, NH
Bis(2-chloroethoxy)methane	CT, NY, NH
Bis(2-chloroethyl)ether	CT, NY, NH
Bis(2-chloroisopropyl)ether	CT, NY, NH
Bis(2-Ethylhexyl)phthalate	CT, NY, NH
4-Bromophenylphenylether	CT, NY, NH
Butylbenzylphthalate	CT, NY, NH
4-Chloroaniline	CT, NY, NH
2-Chloronaphthalene	CT, NY, NH
2-Chlorophenol	CT, NY, NH
Chrysene	CT, NY, NH
Dibenz(a,h)anthracene	CT, NY, NH
Dibenzofuran	CT, NY, NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Company Name: **VHB**
 Address: 101 Walnut Street, Watertown MA 02472
 Phone: 617-607-1885
 Project Name: Sudbury-Hudson Eversource Transmission Line
 Project Location: Sudbury/Hudson, MA
 Project Number: 12970.00
 Project Manager: Paul McKinlay
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code	Conc Code
1	MP-40	10/2/2018	1212	X	X	S U

Comments: 20X Rule for TCLP. VOCs frozen 10/2/2018 @ 1230. VOC preservatives: 1 NaOH, 2 H₂O₂.

Date for all labels for MP-40 should be 10/2/18.

Requested by: (signature) *[Signature]*
 Date/Time: 10/3/18 13:35
 Received by: (signature) *[Signature]*
 Date/Time: 10/3/18 13:35
 Retransmitted by: (signature) *[Signature]*
 Date/Time: 10/3/18 13:35
 Shipped by: (signature) *[Signature]*
 Date/Time: 10/3/18 1910
 2-2
 Date/Time: 10/3/18 19:10
 Shipped by: (signature) *[Signature]*

10/3/18 1910

ANALYSIS REQUESTED	Field Filtered	Lab to Filter
Reactivity, pH, turbidity	<input type="checkbox"/>	<input type="checkbox"/>
Specificity, Conductivity	<input type="checkbox"/>	<input type="checkbox"/>
VOCs, PCBs, TPH	<input type="checkbox"/>	<input type="checkbox"/>
Metallic Metals	<input type="checkbox"/>	<input type="checkbox"/>
VOCs	<input type="checkbox"/>	<input type="checkbox"/>

Requested Turnaround Time: 7-Day 10-Day

Due Date: 10/3/18

Rush Approval Required: 1-Day 3-Day 2-Day 4-Day

Data Delivery: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: paulm@vhb.com, pmckinlay@vhb.com

Fax To #:

of Containers: 3
 Preservation Code: M/B
 Container Code: Y

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY:
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By ap Date 10/3/18 Time 19:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.2

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name F

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	2	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		10/3/18 1910

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

October 24, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18J0746

Enclosed are results of analyses for samples received by the laboratory on October 15, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 10/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0746

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP32	18J0746-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP34	18J0746-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 10/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0746

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB49	18J0746-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 10/17/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18J0746-01[MP32]

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**4,4'-DDE**

18J0746-02[MP34]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49]

SW-846 8100 Modified

Qualifications:**MS-19**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

B215078-MS1, B215078-MSD1

SW-846 8151A

Qualifications:**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

B214866-BS1, B214866-BSD1

Dinoseb [2C]

B214866-BS1, B214866-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

B214866-BLK1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dinoseb**

B214866-BLK1, B214866-BS1, B214866-BSD1

Dinoseb [2C]

B214866-BLK1, B214866-BS1, B214866-BSD1

SW-846 8260C

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Acetone**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215140-BLK1, B215140-BS1, B215140-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215140-BLK1, B215140-BS1, B215140-BSD1

Tetrahydrofuran

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215140-BLK1, B215140-BS1, B215140-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Methylene Chloride**

B215140-BS1, B215140-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215140-BLK1, B215140-BS1, B215140-BSD1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B215140-BS1, B215140-BSD1

SW-846 8270D**Qualifications:****V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B215149-BLK1, B215149-BS1, B215149-BSD1

Aniline

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49]

Pyridine

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**4-Nitrophenol**

B215149-BS1, B215149-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49]

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**4-Nitrophenol**

B215149-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215149-BLK1, B215149-BS1, B215149-BSD1

Aniline

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49], B215149-BLK1, B215149-BS1, B215149-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18J0746-01[MP32], 18J0746-02[MP34], 18J0746-03[SB49]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP32

Sampled: 10/11/2018 10:15

Sample ID: 18J0746-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.049	mg/Kg dry	1	R-05	SW-846 8260C	10/18/18	10/18/18 11:53	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Benzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Bromobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Bromochloromethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Bromodichloromethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Bromoform	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Bromomethane	ND	0.0049	mg/Kg dry	1	V-34	SW-846 8260C	10/18/18	10/18/18 11:53	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
n-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
sec-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
tert-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Carbon Disulfide	ND	0.0029	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Carbon Tetrachloride	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Chlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Chlorodibromomethane	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Chloroethane	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Chloromethane	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
2-Chlorotoluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
4-Chlorotoluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2-Dibromoethane (EDB)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Dibromomethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,3-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,4-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1-Dichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2-Dichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
cis-1,2-Dichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
trans-1,2-Dichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2-Dichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,3-Dichloropropane	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
2,2-Dichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1-Dichloropropene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
cis-1,3-Dichloropropene	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
trans-1,3-Dichloropropene	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Diethyl Ether	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Diisopropyl Ether (DIPE)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,4-Dioxane	ND	0.049	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Ethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP32

Sampled: 10/11/2018 10:15

Sample ID: 18J0746-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
2-Hexanone (MBK)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Isopropylbenzene (Cumene)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Methylene Chloride	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Naphthalene	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
n-Propylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Styrene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Tetrachloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Tetrahydrofuran	ND	0.0049	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Toluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2,4-Trichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1,1-Trichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,1,2-Trichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Trichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2,3-Trichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,2,4-Trimethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
1,3,5-Trimethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
Vinyl Chloride	ND	0.0049	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF
o-Xylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 11:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	10/18/18 11:53
Toluene-d8	96.3	70-130	10/18/18 11:53
4-Bromofluorobenzene	95.2	70-130	10/18/18 11:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP32

Sampled: 10/11/2018 10:15

Sample ID: 18J0746-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-05, V-34	SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Benzo(b)fluoranthene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1	V-34	SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	V-19	SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Fluoranthene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 10:15

Field Sample #: MP32

Sample ID: 18J0746-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Pyrene	0.22	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	10/18/18	10/23/18 21:25	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:25	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	53.1		30-130			10/23/18 21:25			
Phenol-d6	57.2		30-130			10/23/18 21:25			
Nitrobenzene-d5	58.8		30-130			10/23/18 21:25			
2-Fluorobiphenyl	58.6		30-130			10/23/18 21:25			
2,4,6-Tribromophenol	59.8		30-130			10/23/18 21:25			
p-Terphenyl-d14	59.0		30-130			10/23/18 21:25			

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP32

Sampled: 10/11/2018 10:15

Sample ID: 18J0746-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Aldrin [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
alpha-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
beta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
delta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
4,4'-DDD [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
4,4'-DDE [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
4,4'-DDT [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Dieldrin [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endosulfan I [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endosulfan II [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endosulfan sulfate [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endrin [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endrin aldehyde [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Endrin ketone [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Heptachlor [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Heptachlor epoxide [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Hexachlorobenzene [1]	ND	0.069	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Methoxychlor [1]	ND	0.57	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Toxaphene [1]	ND	1.1	mg/Kg dry	10		SW-846 8081B	10/17/18	10/18/18 23:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.0	30-150					10/18/18 23:02	
Decachlorobiphenyl [2]		63.9	30-150					10/18/18 23:02	
Tetrachloro-m-xylene [1]		67.9	30-150					10/18/18 23:02	
Tetrachloro-m-xylene [2]		66.2	30-150					10/18/18 23:02	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP32

Sampled: 10/11/2018 10:15

Sample ID: 18J0746-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 0:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.1	30-150					10/20/18 0:47	
Decachlorobiphenyl [2]		86.0	30-150					10/20/18 0:47	
Tetrachloro-m-xylene [1]		79.3	30-150					10/20/18 0:47	
Tetrachloro-m-xylene [2]		86.6	30-150					10/20/18 0:47	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 10:15

Field Sample #: MP32

Sample ID: 18J0746-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
Dalalpon [1]	ND	74	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
Dinoseb [1]	ND	15	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 21:57	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		81.7	30-150					10/21/18 21:57	
2,4-Dichlorophenylacetic acid [2]		84.9	30-150					10/21/18 21:57	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 10:15

Field Sample #: MP32

Sample ID: 18J0746-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	330	98	mg/Kg dry	10		SW-846 8100 Modified	10/17/18	10/18/18 14:26	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.3	40-140					10/18/18 14:26	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 10:15

Field Sample #: MP32

Sample ID: 18J0746-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Arsenic	18	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Barium	22	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Beryllium	0.26	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Cadmium	0.62	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Chromium	13	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Lead	26	0.59	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	10/22/18	10/23/18 12:27	EJB
Nickel	8.4	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Vanadium	14	0.78	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW
Zinc	28	0.78	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:43	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 10:15

Field Sample #: MP32

Sample ID: 18J0746-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	10/17/18	10/17/18 15:30	LED
pH @20.6°C	6.4		pH Units	1	H-03	SW-846 9045C	10/16/18	10/16/18 20:34	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	10/20/18	10/23/18 12:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	10/20/18	10/23/18 12:00	DJM
Specific conductance	8.1	2.0	µmhos/cm	1		SM21-22 2510B Modified	10/23/18	10/23/18 13:00	EC
% Solids	84.0		% Wt	1		SM 2540G	10/19/18	10/21/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1	R-05	SW-846 8260C	10/18/18	10/18/18 12:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Benzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Bromobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Bromochloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Bromodichloromethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Bromoform	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C	10/18/18	10/18/18 12:20	MFF
2-Butanone (MEK)	ND	0.042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
n-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
sec-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
tert-Butylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Carbon Disulfide	ND	0.0063	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Carbon Tetrachloride	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Chlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Chloroform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
2-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
4-Chlorotoluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Dibromomethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,3-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,4-Dichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2-Dichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1-Dichloroethylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
cis-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
trans-1,2-Dichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
2,2-Dichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1-Dichloropropene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Ethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
2-Hexanone (MBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Isopropylbenzene (Cumene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Naphthalene	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
n-Propylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Styrene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Tetrachloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Toluene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2,4-Trichlorobenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1,1-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,1,2-Trichloroethane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Trichloroethylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2,3-Trichloropropane	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,2,4-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
1,3,5-Trimethylbenzene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
m+p Xylene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF
o-Xylene	ND	0.0021	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	96.5	70-130	
4-Bromofluorobenzene	99.8	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-05, V-34	SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Anthracene	2.3	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Benzo(a)anthracene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Benzo(a)pyrene	0.40	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Benzo(b)fluoranthene	1.0	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Benzo(g,h,i)perylene	0.20	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Benzo(k)fluoranthene	0.36	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	V-34	SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Chrysene	1.2	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Dibenzofuran	1.6	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-19	SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Fluoranthene	6.1	0.99	mg/Kg dry	5		SW-846 8270D	10/18/18	10/24/18 12:56	BGL
Fluorene	0.65	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Indeno(1,2,3-cd)pyrene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2-Methylnaphthalene	0.67	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Naphthalene	0.85	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Phenanthrene	10	0.99	mg/Kg dry	5		SW-846 8270D	10/18/18	10/24/18 12:56	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Pyrene	4.2	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
Pyridine	ND	0.39	mg/Kg dry	1	V-05	SW-846 8270D	10/18/18	10/23/18 21:52	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 21:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	55.4	30-130	10/23/18 21:52
2-Fluorophenol	65.4	30-130	10/24/18 12:56
Phenol-d6	63.4	30-130	10/23/18 21:52
Phenol-d6	76.5	30-130	10/24/18 12:56
Nitrobenzene-d5	62.3	30-130	10/23/18 21:52
Nitrobenzene-d5	64.6	30-130	10/24/18 12:56
2-Fluorobiphenyl	67.8	30-130	10/23/18 21:52
2-Fluorobiphenyl	71.4	30-130	10/24/18 12:56
2,4,6-Tribromophenol	76.8	30-130	10/23/18 21:52
2,4,6-Tribromophenol	74.1	30-130	10/24/18 12:56
p-Terphenyl-d14	76.4	30-130	10/23/18 21:52
p-Terphenyl-d14	76.0	30-130	10/24/18 12:56

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
4,4'-DDE [1]	0.0084	0.0046	mg/Kg dry	1	P-02	SW-846 8081B	10/17/18	10/18/18 23:29	TG
4,4'-DDT [1]	0.050	0.0046	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endosulfan sulfate [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Endrin ketone [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		56.4	30-150					10/18/18 23:29	
Decachlorobiphenyl [2]		46.3	30-150					10/18/18 23:29	
Tetrachloro-m-xylene [1]		54.1	30-150					10/18/18 23:29	
Tetrachloro-m-xylene [2]		52.3	30-150					10/18/18 23:29	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: MP34

Sampled: 10/11/2018 14:21

Sample ID: 18J0746-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:04	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.0	30-150					10/20/18 1:04	
Decachlorobiphenyl [2]		89.7	30-150					10/20/18 1:04	
Tetrachloro-m-xylene [1]		74.2	30-150					10/20/18 1:04	
Tetrachloro-m-xylene [2]		80.2	30-150					10/20/18 1:04	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:21

Field Sample #: MP34

Sample ID: 18J0746-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
Dalalpon [1]	ND	74	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
Dinoseb [1]	ND	15	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 22:36	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		78.8	30-150					10/21/18 22:36	
2,4-Dichlorophenylacetic acid [2]		82.5	30-150					10/21/18 22:36	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:21

Field Sample #: MP34

Sample ID: 18J0746-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	340	96	mg/Kg dry	10		SW-846 8100 Modified	10/17/18	10/18/18 15:26	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		55.9	40-140					10/18/18 15:26	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:21

Field Sample #: MP34

Sample ID: 18J0746-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Arsenic	21	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Barium	32	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Beryllium	0.42	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Cadmium	0.73	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Chromium	16	0.40	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Lead	27	0.60	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Mercury	0.039	0.031	mg/Kg dry	1		SW-846 7471B	10/22/18	10/23/18 12:33	EJB
Nickel	12	0.40	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Vanadium	24	0.80	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW
Zinc	26	0.80	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:48	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:21

Field Sample #: MP34

Sample ID: 18J0746-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	10/17/18	10/17/18 15:30	LED
pH @20.9°C	6.6		pH Units	1	H-03	SW-846 9045C	10/16/18	10/16/18 20:34	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	10/20/18	10/23/18 12:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	10/20/18	10/23/18 12:00	DJM
Specific conductance	4.5	2.0	µmhos/cm	1		SM21-22 2510B Modified	10/23/18	10/23/18 13:00	EC
% Solids	84.5		% Wt	1		SM 2540G	10/19/18	10/21/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: SB49

Sampled: 10/11/2018 14:25

Sample ID: 18J0746-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	mg/Kg dry	1	R-05	SW-846 8260C	10/18/18	10/18/18 12:48	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Bromomethane	ND	0.0089	mg/Kg dry	1	V-34	SW-846 8260C	10/18/18	10/18/18 12:48	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Carbon Disulfide	ND	0.0054	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Chlorodibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Chloroethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Chloromethane	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,3-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
cis-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
trans-1,3-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Diethyl Ether	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Diisopropyl Ether (DIPE)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,4-Dioxane	ND	0.089	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: SB49

Sampled: 10/11/2018 14:25

Sample ID: 18J0746-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Methylene Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Naphthalene	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Tetrahydrofuran	ND	0.0089	mg/Kg dry	1	V-16	SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
Vinyl Chloride	ND	0.0089	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	10/18/18	10/18/18 12:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	96.6	70-130	
4-Bromofluorobenzene	99.3	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: SB49

Sampled: 10/11/2018 14:25

Sample ID: 18J0746-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-05, V-34	SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	V-34	SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-19	SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:25

Field Sample #: SB49

Sample ID: 18J0746-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	10/18/18	10/23/18 22:20	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	10/18/18	10/23/18 22:20	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		61.9	30-130					10/23/18 22:20	
Phenol-d6		72.9	30-130					10/23/18 22:20	
Nitrobenzene-d5		70.8	30-130					10/23/18 22:20	
2-Fluorobiphenyl		75.6	30-130					10/23/18 22:20	
2,4,6-Tribromophenol		87.4	30-130					10/23/18 22:20	
p-Terphenyl-d14		82.1	30-130					10/23/18 22:20	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: SB49

Sampled: 10/11/2018 14:25

Sample ID: 18J0746-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	10/17/18	10/18/18 23:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		56.2	30-150					10/18/18 23:56	
Decachlorobiphenyl [2]		49.7	30-150					10/18/18 23:56	
Tetrachloro-m-xylene [1]		56.3	30-150					10/18/18 23:56	
Tetrachloro-m-xylene [2]		52.6	30-150					10/18/18 23:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Field Sample #: SB49

Sampled: 10/11/2018 14:25

Sample ID: 18J0746-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	10/17/18	10/20/18 1:21	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		60.9	30-150					10/20/18 1:21	
Decachlorobiphenyl [2]		74.8	30-150					10/20/18 1:21	
Tetrachloro-m-xylene [1]		58.4	30-150					10/20/18 1:21	
Tetrachloro-m-xylene [2]		65.7	30-150					10/20/18 1:21	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:25

Field Sample #: SB49

Sample ID: 18J0746-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
Dinoseb [1]	ND	15	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	10/16/18	10/21/18 23:16	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		74.1	30-150					10/21/18 23:16	
2,4-Dichlorophenylacetic acid [2]		103	30-150					10/21/18 23:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:25

Field Sample #: SB49

Sample ID: 18J0746-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	21	9.8	mg/Kg dry	1		SW-846 8100 Modified	10/17/18	10/18/18 13:06	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.4	40-140					10/18/18 13:06	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:25

Field Sample #: SB49

Sample ID: 18J0746-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Arsenic	14	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Barium	21	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Beryllium	0.31	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Cadmium	0.47	0.20	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Chromium	11	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Lead	6.4	0.59	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	10/22/18	10/23/18 12:34	EJB
Nickel	8.3	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Vanadium	13	0.78	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW
Zinc	15	0.78	mg/Kg dry	1		SW-846 6010D	10/22/18	10/23/18 11:53	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J0746

Date Received: 10/15/2018

Sampled: 10/11/2018 14:25

Field Sample #: SB49

Sample ID: 18J0746-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	10/17/18	10/17/18 15:30	LED
pH @21.4°C	5.9		pH Units	1	H-03	SW-846 9045C	10/16/18	10/16/18 20:34	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	10/20/18	10/23/18 12:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	10/20/18	10/23/18 12:00	DJM
Specific conductance	5.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	10/23/18	10/23/18 13:00	EC
% Solids	83.9		% Wt	1		SM 2540G	10/19/18	10/21/18 9:20	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J0746-01 [MP32]	B215260	10/19/18
18J0746-02 [MP34]	B215260	10/19/18
18J0746-03 [SB49]	B215260	10/19/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18J0746-01 [MP32]	B215406	1.00	10/23/18
18J0746-02 [MP34]	B215406	1.00	10/23/18
18J0746-03 [SB49]	B215406	1.00	10/23/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18J0746-01 [MP32]	B215075	50.0	10/17/18
18J0746-02 [MP34]	B215075	50.0	10/17/18
18J0746-03 [SB49]	B215075	50.0	10/17/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215319	1.52	50.0	10/22/18
18J0746-02 [MP34]	B215319	1.49	50.0	10/22/18
18J0746-03 [SB49]	B215319	1.53	50.0	10/22/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215349	0.609	50.0	10/22/18
18J0746-02 [MP34]	B215349	0.578	50.0	10/22/18
18J0746-03 [SB49]	B215349	0.608	50.0	10/22/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215027	10.4	10.0	10/17/18
18J0746-02 [MP34]	B215027	10.4	10.0	10/17/18
18J0746-03 [SB49]	B215027	10.6	10.0	10/17/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215049	10.4	10.0	10/17/18
18J0746-02 [MP34]	B215049	10.4	10.0	10/17/18
18J0746-03 [SB49]	B215049	10.6	10.0	10/17/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215078	30.3	1.00	10/17/18
18J0746-02 [MP34]	B215078	30.8	1.00	10/17/18
18J0746-03 [SB49]	B215078	30.4	1.00	10/17/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B214866	20.0	5.00	10/16/18
18J0746-02 [MP34]	B214866	20.0	5.00	10/16/18
18J0746-03 [SB49]	B214866	20.0	5.00	10/16/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215140	12.2	10.0	10/18/18
18J0746-02 [MP34]	B215140	5.67	10.0	10/18/18
18J0746-03 [SB49]	B215140	6.68	10.0	10/18/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215149	30.0	1.00	10/18/18
18J0746-02 [MP34]	B215149	30.6	1.00	10/18/18
18J0746-02RE1 [MP34]	B215149	30.6	1.00	10/18/18
18J0746-03 [SB49]	B215149	30.4	1.00	10/18/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215274	25.3	250	10/20/18
18J0746-02 [MP34]	B215274	25.3	250	10/20/18
18J0746-03 [SB49]	B215274	25.5	250	10/20/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B215459	25.3	250	10/20/18
18J0746-02 [MP34]	B215459	25.3	250	10/20/18
18J0746-03 [SB49]	B215459	25.5	250	10/20/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J0746-01 [MP32]	B214965	20.0		10/16/18
18J0746-02 [MP34]	B214965	20.0		10/16/18
18J0746-03 [SB49]	B214965	20.0		10/16/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215140 - SW-846 5035

Blank (B215140-BLK1)

Prepared & Analyzed: 10/18/18

Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215140 - SW-846 5035

Blank (B215140-BLK1)

Prepared & Analyzed: 10/18/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: Toluene-d8	0.0482		mg/Kg wet	0.0500		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0476		mg/Kg wet	0.0500		95.2	70-130			

LCS (B215140-BS1)

Prepared & Analyzed: 10/18/18

Acetone	0.314	0.10	mg/Kg wet	0.200		157	40-160			L-14, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0193	0.0010	mg/Kg wet	0.0200		96.6	70-130			
Benzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Bromochloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Bromoform	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.7	40-160			L-14, V-34 †
2-Butanone (MEK)	0.265	0.040	mg/Kg wet	0.200		132	40-160			L-14 †
n-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
sec-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
tert-Butylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0192	0.0010	mg/Kg wet	0.0200		96.0	70-130			
Carbon Disulfide	0.0191	0.0060	mg/Kg wet	0.0200		95.3	70-130			
Carbon Tetrachloride	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Chloroethane	0.0172	0.010	mg/Kg wet	0.0200		86.2	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.7	70-130			
Chloromethane	0.0185	0.010	mg/Kg wet	0.0200		92.3	40-160			†
2-Chlorotoluene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
4-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dibromoethane (EDB)	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Dibromomethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215140 - SW-846 5035										
LCS (B215140-BS1)										
Prepared & Analyzed: 10/18/18										
Dichlorodifluoromethane (Freon 12)	0.0184	0.010	mg/Kg wet	0.0200		91.9	40-160			†
1,1-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
1,2-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1-Dichloroethylene	0.0180	0.0040	mg/Kg wet	0.0200		89.8	70-130			
cis-1,2-Dichloroethylene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
trans-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.6	70-130			
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,1-Dichloropropene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
cis-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130			
Diethyl Ether	0.0200	0.010	mg/Kg wet	0.0200		99.8	70-130			
Diisopropyl Ether (DIPE)	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
1,4-Dioxane	0.262	0.10	mg/Kg wet	0.200		131	40-160			L-14, V-16, V-36 †
Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Hexachlorobutadiene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
2-Hexanone (MBK)	0.239	0.020	mg/Kg wet	0.200		119	40-160			†
Isopropylbenzene (Cumene)	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
p-Isopropyltoluene (p-Cymene)	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0200	0.0040	mg/Kg wet	0.0200		100	70-130			
Methylene Chloride	0.0235	0.010	mg/Kg wet	0.0200		117	70-130			V-20
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	40-160			†
Naphthalene	0.0200	0.0040	mg/Kg wet	0.0200		99.9	70-130			
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
1,1,1,2-Tetrachloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.4	70-130			
Tetrachloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Tetrahydrofuran	0.0190	0.010	mg/Kg wet	0.0200		95.2	70-130			V-16
Toluene	0.0175	0.0020	mg/Kg wet	0.0200		87.3	70-130			
1,2,3-Trichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Trichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0179	0.010	mg/Kg wet	0.0200		89.4	70-130			
1,2,3-Trichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
1,3,5-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.0200		87.2	70-130			
m+p Xylene	0.0375	0.0040	mg/Kg wet	0.0400		93.8	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215140 - SW-846 5035										
LCS Dup (B215140-BSD1)										
Prepared & Analyzed: 10/18/18										
Acetone	0.246	0.10	mg/Kg wet	0.200		123	40-160	24.1 *	20	R-05 †
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.0200		97.7	70-130	1.13	20	
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130	1.88	20	
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	1.14	20	
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	1.55	20	
Bromodichloromethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130	0.531	20	
Bromoform	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	2.52	20	
Bromomethane	0.0123	0.010	mg/Kg wet	0.0200		61.4	40-160	6.21	20	L-14, V-34 †
2-Butanone (MEK)	0.226	0.040	mg/Kg wet	0.200		113	40-160	15.7	20	†
n-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	1.47	20	
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	3.05	20	
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	4.13	20	
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130	2.98	20	
Carbon Disulfide	0.0198	0.0060	mg/Kg wet	0.0200		99.0	70-130	3.81	20	
Carbon Tetrachloride	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	2.47	20	
Chlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	4.60	20	
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	3.71	20	
Chloroethane	0.0171	0.010	mg/Kg wet	0.0200		85.4	70-130	0.932	20	
Chloroform	0.0190	0.0040	mg/Kg wet	0.0200		95.1	70-130	1.48	20	
Chloromethane	0.0188	0.010	mg/Kg wet	0.0200		94.2	40-160	2.04	20	†
2-Chlorotoluene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	5.58	20	
4-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	2.06	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	2.88	20	
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	1.09	20	
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.45	20	
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	4.26	20	
1,3-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.87	20	
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	0.758	20	
Dichlorodifluoromethane (Freon 12)	0.0188	0.010	mg/Kg wet	0.0200		93.8	40-160	2.05	20	†
1,1-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	1.25	20	
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.596	20	
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg wet	0.0200		95.3	70-130	5.94	20	
cis-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130	4.29	20	
trans-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	1.85	20	
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	1.26	20	
1,3-Dichloropropane	0.0195	0.0010	mg/Kg wet	0.0200		97.5	70-130	4.08	20	
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	0.562	20	
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130	4.35	20	
cis-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.5	70-130	2.28	20	
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.3	70-130	3.27	20	
Diethyl Ether	0.0195	0.010	mg/Kg wet	0.0200		97.4	70-130	2.43	20	
Diisopropyl Ether (DIPE)	0.0192	0.0010	mg/Kg wet	0.0200		95.9	70-130	1.05	20	
1,4-Dioxane	0.256	0.10	mg/Kg wet	0.200		128	40-160	2.47	20	V-16, V-36 †
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	1.81	20	
Hexachlorobutadiene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	4.19	20	
2-Hexanone (MBK)	0.220	0.020	mg/Kg wet	0.200		110	40-160	8.03	20	†
Isopropylbenzene (Cumene)	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	1.44	20	
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	2.71	20	
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130	0.399	20	
Methylene Chloride	0.0246	0.010	mg/Kg wet	0.0200		123	70-130	4.74	20	V-20
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		107	40-160	2.02	20	†
Naphthalene	0.0195	0.0040	mg/Kg wet	0.0200		97.4	70-130	2.53	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215140 - SW-846 5035										
LCS Dup (B215140-BSD1)										
Prepared & Analyzed: 10/18/18										
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	0.315	20	
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	3.81	20	
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	6.00	20	
1,1,2,2-Tetrachloroethane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	4.52	20	
Tetrachloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	2.72	20	
Tetrahydrofuran	0.0157	0.010	mg/Kg wet	0.0200		78.7	70-130	19.0	20	V-16
Toluene	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130	0.912	20	
1,2,3-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.09	20	
1,2,4-Trichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.06	20	
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	1.57	20	
1,1,2-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	0.949	20	
Trichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	2.03	20	
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.5	70-130	2.15	20	
1,2,3-Trichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.23	20	
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.329	20	
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	1.93	20	
Vinyl Chloride	0.0178	0.010	mg/Kg wet	0.0200		89.1	70-130	2.16	20	
m+p Xylene	0.0375	0.0040	mg/Kg wet	0.0400		93.6	70-130	0.213	20	
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	4.99	20	
Surrogate: 1,2-Dichloroethane-d4	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0480		mg/Kg wet	0.0500		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/Kg wet	0.0500		98.3	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215149 - SW-846 3546

Blank (B215149-BLK1)

Prepared: 10/18/18 Analyzed: 10/20/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215149 - SW-846 3546										
Blank (B215149-BLK1)										
Prepared: 10/18/18 Analyzed: 10/20/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	3.28		mg/Kg wet	6.67		49.3	30-130			
Surrogate: Phenol-d6	3.51		mg/Kg wet	6.67		52.6	30-130			
Surrogate: Nitrobenzene-d5	1.59		mg/Kg wet	3.33		47.6	30-130			
Surrogate: 2-Fluorobiphenyl	1.77		mg/Kg wet	3.33		53.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.34		mg/Kg wet	6.67		65.1	30-130			
Surrogate: p-Terphenyl-d14	2.08		mg/Kg wet	3.33		62.3	30-130			
LCS (B215149-BS1)										
Prepared: 10/18/18 Analyzed: 10/20/18										
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Acenaphthylene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Acetophenone	1.08	0.34	mg/Kg wet	1.67		65.1	40-140			
Aniline	0.687	0.34	mg/Kg wet	1.67		41.2	40-140			V-34
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		63.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			
Bis(2-chloroethyl)ether	1.11	0.34	mg/Kg wet	1.67		66.7	40-140			
Bis(2-chloroisopropyl)ether	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.15	0.34	mg/Kg wet	1.67		68.8	40-140			
4-Bromophenylphenylether	1.23	0.34	mg/Kg wet	1.67		73.7	40-140			
Butylbenzylphthalate	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
4-Chloroaniline	0.668	0.66	mg/Kg wet	1.67		40.1	15-140			V-34 †
2-Chloronaphthalene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140			
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.6	30-130			
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Dibenz(a,h)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140			
Dibenzofuran	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.6	40-140			
1,2-Dichlorobenzene	0.950	0.34	mg/Kg wet	1.67		57.0	40-140			
1,3-Dichlorobenzene	0.909	0.34	mg/Kg wet	1.67		54.6	40-140			
1,4-Dichlorobenzene	0.901	0.34	mg/Kg wet	1.67		54.0	40-140			
3,3-Dichlorobenzidine	0.855	0.17	mg/Kg wet	1.67		51.3	40-140			
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2	30-130			
Diethylphthalate	1.22	0.34	mg/Kg wet	1.67		73.4	40-140			
2,4-Dimethylphenol	1.32	0.34	mg/Kg wet	1.67		79.1	30-130			
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5	40-140			
2,4-Dinitrophenol	0.738	0.66	mg/Kg wet	1.67		44.3	15-140			V-05 †
2,4-Dinitrotoluene	1.25	0.34	mg/Kg wet	1.67		75.3	40-140			
2,6-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.67		75.7	40-140			
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.18	0.34	mg/Kg wet	1.67		70.8	40-140			
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215149 - SW-846 3546										
LCS (B215149-BS1)										
					Prepared: 10/18/18 Analyzed: 10/20/18					
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
Hexachlorobutadiene	1.05	0.34	mg/Kg wet	1.67		63.2	40-140			
Hexachloroethane	0.940	0.34	mg/Kg wet	1.67		56.4	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140			
Isophorone	1.17	0.34	mg/Kg wet	1.67		70.0	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
2-Methylphenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130			
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140			
Nitrobenzene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140			
2-Nitrophenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130			
4-Nitrophenol	1.56	0.66	mg/Kg wet	1.67		93.6	15-140			V-06 †
Pentachlorophenol	0.964	0.34	mg/Kg wet	1.67		57.8	30-130			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Phenol	1.17	0.34	mg/Kg wet	1.67		70.3	15-140			†
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Pyridine	0.708	0.34	mg/Kg wet	1.67		42.5	30-140			†
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.9	30-130			
2,4,6-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130			
Surrogate: 2-Fluorophenol	3.67		mg/Kg wet	6.67		55.0	30-130			
Surrogate: Phenol-d6	4.07		mg/Kg wet	6.67		61.0	30-130			
Surrogate: Nitrobenzene-d5	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.13		mg/Kg wet	3.33		63.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.74		mg/Kg wet	6.67		71.0	30-130			
Surrogate: p-Terphenyl-d14	2.18		mg/Kg wet	3.33		65.5	30-130			
LCS Dup (B215149-BS1)										
					Prepared: 10/18/18 Analyzed: 10/20/18					
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	1.53	30	
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	3.98	30	
Acetophenone	1.02	0.34	mg/Kg wet	1.67		61.3	40-140	6.01	30	
Aniline	0.738	0.34	mg/Kg wet	1.67		44.3	40-140	7.25	30	V-34
Anthracene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140	1.74	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	2.59	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	0.463	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	1.72	30	
Benzo(g,h,i)perylene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	4.41	30	
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	3.02	30	
Bis(2-chloroethoxy)methane	1.20	0.34	mg/Kg wet	1.67		71.8	40-140	4.84	30	
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.4	40-140	5.07	30	
Bis(2-chloroisopropyl)ether	1.06	0.34	mg/Kg wet	1.67		63.5	40-140	2.61	30	
Bis(2-Ethylhexyl)phthalate	1.11	0.34	mg/Kg wet	1.67		66.7	40-140	3.22	30	
4-Bromophenylphenylether	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	6.48	30	
Butylbenzylphthalate	1.14	0.34	mg/Kg wet	1.67		68.4	40-140	3.19	30	
4-Chloroaniline	0.692	0.66	mg/Kg wet	1.67		41.5	15-140	3.48	30	V-34 †
2-Chloronaphthalene	0.980	0.34	mg/Kg wet	1.67		58.8	40-140	2.19	30	
2-Chlorophenol	1.01	0.34	mg/Kg wet	1.67		60.6	30-130	3.25	30	
Chrysene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	5.03	30	
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	3.37	30	
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.4	40-140	2.14	30	
Di-n-butylphthalate	1.13	0.34	mg/Kg wet	1.67		68.1	40-140	2.21	30	
1,2-Dichlorobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	7.35	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215149 - SW-846 3546										
LCS Dup (B215149-BSD1)										
					Prepared: 10/18/18 Analyzed: 10/20/18					
1,3-Dichlorobenzene	0.862	0.34	mg/Kg wet	1.67		51.7	40-140	5.31	30	
1,4-Dichlorobenzene	0.870	0.34	mg/Kg wet	1.67		52.2	40-140	3.46	30	
3,3-Dichlorobenzidine	0.833	0.17	mg/Kg wet	1.67		50.0	40-140	2.69	30	
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130	2.54	30	
Diethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	5.32	30	
2,4-Dimethylphenol	1.21	0.34	mg/Kg wet	1.67		72.6	30-130	8.54	30	
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	1.42	30	
2,4-Dinitrophenol	0.660	0.66	mg/Kg wet	1.67		39.6	15-140	11.2	30	V-05 †
2,4-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	5.35	30	
2,6-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.7	40-140	5.51	30	
Di-n-octylphthalate	1.15	0.34	mg/Kg wet	1.67		69.1	40-140	0.462	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	3.54	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	2.73	30	
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	2.18	30	
Hexachlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	4.61	30	
Hexachlorobutadiene	1.00	0.34	mg/Kg wet	1.67		60.2	40-140	4.89	30	
Hexachloroethane	0.898	0.34	mg/Kg wet	1.67		53.9	40-140	4.57	30	
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	6.53	30	
Isophorone	1.11	0.34	mg/Kg wet	1.67		66.7	40-140	4.74	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	2.32	30	
2-Methylphenol	0.987	0.34	mg/Kg wet	1.67		59.2	30-130	3.84	30	
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130	3.15	30	
Naphthalene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	4.99	30	
Nitrobenzene	1.02	0.34	mg/Kg wet	1.67		61.1	40-140	5.32	30	
2-Nitrophenol	1.05	0.34	mg/Kg wet	1.67		62.8	30-130	5.79	30	
4-Nitrophenol	1.42	0.66	mg/Kg wet	1.67		85.0	15-140	9.61	30	V-06 †
Pentachlorophenol	0.905	0.34	mg/Kg wet	1.67		54.3	30-130	6.32	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	3.36	30	
Phenol	1.10	0.34	mg/Kg wet	1.67		66.3	15-140	5.89	30	†
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	4.18	30	
Pyridine	0.687	0.34	mg/Kg wet	1.67		41.2	30-140	3.06	30	†
1,2,4-Trichlorobenzene	0.991	0.34	mg/Kg wet	1.67		59.4	40-140	7.54	30	
2,4,5-Trichlorophenol	1.18	0.34	mg/Kg wet	1.67		71.1	30-130	5.18	30	
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130	6.69	30	
Surrogate: 2-Fluorophenol	3.78		mg/Kg wet	6.67		56.7	30-130			
Surrogate: Phenol-d6	4.18		mg/Kg wet	6.67		62.7	30-130			
Surrogate: Nitrobenzene-d5	2.03		mg/Kg wet	3.33		61.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.23		mg/Kg wet	3.33		67.0	30-130			
Surrogate: 2,4,6-Tribromophenol	5.14		mg/Kg wet	6.67		77.1	30-130			
Surrogate: p-Terphenyl-d14	2.26		mg/Kg wet	3.33		67.8	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215027 - SW-846 3546

Blank (B215027-BLK1)

Prepared: 10/17/18 Analyzed: 10/18/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg wet	0.200		78.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.153		mg/Kg wet	0.200		76.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215027 - SW-846 3546										
LCS (B215027-BS1)										
					Prepared: 10/17/18 Analyzed: 10/18/18					
alpha-Chlordane	0.087	0.0050	mg/Kg wet	0.100		86.8	40-140			
alpha-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		85.8	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.8	40-140			
gamma-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140			
Alachlor	0.091	0.020	mg/Kg wet	0.100		90.7	40-140			
Alachlor [2C]	0.085	0.020	mg/Kg wet	0.100		84.9	40-140			
Aldrin	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140			
Aldrin [2C]	0.086	0.0050	mg/Kg wet	0.100		86.3	40-140			
alpha-BHC	0.099	0.0050	mg/Kg wet	0.100		99.3	40-140			
alpha-BHC [2C]	0.085	0.0050	mg/Kg wet	0.100		85.4	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		84.3	40-140			
beta-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.2	40-140			
delta-BHC	0.072	0.0050	mg/Kg wet	0.100		71.6	40-140			
delta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		73.7	40-140			
gamma-BHC (Lindane)	0.087	0.0020	mg/Kg wet	0.100		86.8	40-140			
gamma-BHC (Lindane) [2C]	0.083	0.0020	mg/Kg wet	0.100		83.1	40-140			
4,4'-DDD	0.088	0.0040	mg/Kg wet	0.100		88.5	40-140			
4,4'-DDD [2C]	0.093	0.0040	mg/Kg wet	0.100		93.3	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140			
4,4'-DDE [2C]	0.090	0.0040	mg/Kg wet	0.100		89.6	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		88.1	40-140			
4,4'-DDT [2C]	0.082	0.0040	mg/Kg wet	0.100		81.9	40-140			
Dieldrin	0.082	0.0040	mg/Kg wet	0.100		82.1	40-140			
Dieldrin [2C]	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
Endosulfan I	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
Endosulfan I [2C]	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140			
Endosulfan II	0.085	0.0080	mg/Kg wet	0.100		84.6	40-140			
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		84.6	40-140			
Endosulfan Sulfate	0.076	0.0080	mg/Kg wet	0.100		76.0	40-140			
Endosulfan Sulfate [2C]	0.076	0.0080	mg/Kg wet	0.100		75.8	40-140			
Endrin	0.085	0.0080	mg/Kg wet	0.100		84.5	40-140			
Endrin [2C]	0.084	0.0080	mg/Kg wet	0.100		84.3	40-140			
Endrin Aldehyde	0.097	0.0080	mg/Kg wet	0.100		97.3	40-140			
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.100		95.1	40-140			
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		82.8	40-140			
Endrin Ketone [2C]	0.080	0.0080	mg/Kg wet	0.100		80.2	40-140			
Heptachlor	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
Heptachlor [2C]	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Heptachlor Epoxide	0.086	0.0050	mg/Kg wet	0.100		85.5	40-140			
Heptachlor Epoxide [2C]	0.084	0.0050	mg/Kg wet	0.100		84.0	40-140			
Hexachlorobenzene	0.099	0.0060	mg/Kg wet	0.100		98.6	40-140			
Hexachlorobenzene [2C]	0.089	0.0060	mg/Kg wet	0.100		88.8	40-140			
Methoxychlor	0.086	0.050	mg/Kg wet	0.100		86.2	40-140			
Methoxychlor [2C]	0.086	0.050	mg/Kg wet	0.100		86.4	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215027 - SW-846 3546										
LCS Dup (B215027-BSD1)										
					Prepared: 10/17/18 Analyzed: 10/18/18					
alpha-Chlordane	0.091	0.0050	mg/Kg wet	0.100		91.5	40-140	5.20	30	
alpha-Chlordane [2C]	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	5.40	30	
gamma-Chlordane	0.090	0.0050	mg/Kg wet	0.100		90.0	40-140	4.79	30	
gamma-Chlordane [2C]	0.092	0.0050	mg/Kg wet	0.100		92.1	40-140	5.69	30	
Alachlor	0.096	0.020	mg/Kg wet	0.100		95.8	40-140	5.40	30	
Alachlor [2C]	0.090	0.020	mg/Kg wet	0.100		89.6	40-140	5.33	30	
Aldrin	0.091	0.0050	mg/Kg wet	0.100		91.3	40-140	4.45	30	
Aldrin [2C]	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	4.85	30	
alpha-BHC	0.10	0.0050	mg/Kg wet	0.100		100	40-140	0.978	30	
alpha-BHC [2C]	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140	3.94	30	
beta-BHC	0.088	0.0050	mg/Kg wet	0.100		88.3	40-140	4.59	30	
beta-BHC [2C]	0.085	0.0050	mg/Kg wet	0.100		84.7	40-140	5.55	30	
delta-BHC	0.054	0.0050	mg/Kg wet	0.100		53.7	40-140	28.6	30	
delta-BHC [2C]	0.056	0.0050	mg/Kg wet	0.100		56.4	40-140	26.7	30	
gamma-BHC (Lindane)	0.088	0.0020	mg/Kg wet	0.100		88.2	40-140	1.62	30	
gamma-BHC (Lindane) [2C]	0.086	0.0020	mg/Kg wet	0.100		85.7	40-140	3.17	30	
4,4'-DDD	0.091	0.0040	mg/Kg wet	0.100		91.0	40-140	2.87	30	
4,4'-DDD [2C]	0.096	0.0040	mg/Kg wet	0.100		95.5	40-140	2.40	30	
4,4'-DDE	0.096	0.0040	mg/Kg wet	0.100		95.8	40-140	6.96	30	
4,4'-DDE [2C]	0.096	0.0040	mg/Kg wet	0.100		96.1	40-140	7.07	30	
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.100		91.0	40-140	3.19	30	
4,4'-DDT [2C]	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140	3.73	30	
Dieldrin	0.086	0.0040	mg/Kg wet	0.100		86.1	40-140	4.85	30	
Dieldrin [2C]	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140	4.78	30	
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	3.96	30	
Endosulfan I [2C]	0.087	0.0050	mg/Kg wet	0.100		87.2	40-140	3.94	30	
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		88.1	40-140	4.07	30	
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		88.1	40-140	4.01	30	
Endosulfan Sulfate	0.058	0.0080	mg/Kg wet	0.100		58.3	40-140	26.4	30	
Endosulfan Sulfate [2C]	0.059	0.0080	mg/Kg wet	0.100		58.8	40-140	25.2	30	
Endrin	0.089	0.0080	mg/Kg wet	0.100		88.9	40-140	5.05	30	
Endrin [2C]	0.088	0.0080	mg/Kg wet	0.100		88.5	40-140	4.80	30	
Endrin Aldehyde	0.097	0.0080	mg/Kg wet	0.100		96.8	40-140	0.530	30	
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.100		95.1	40-140	0.0810	30	
Endrin Ketone	0.087	0.0080	mg/Kg wet	0.100		87.0	40-140	5.00	30	
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		84.2	40-140	4.87	30	
Heptachlor	0.073	0.0050	mg/Kg wet	0.100		73.4	40-140	3.80	30	
Heptachlor [2C]	0.087	0.0050	mg/Kg wet	0.100		86.8	40-140	4.91	30	
Heptachlor Epoxide	0.090	0.0050	mg/Kg wet	0.100		90.1	40-140	5.16	30	
Heptachlor Epoxide [2C]	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140	4.85	30	
Hexachlorobenzene	0.10	0.0060	mg/Kg wet	0.100		101	40-140	2.81	30	
Hexachlorobenzene [2C]	0.093	0.0060	mg/Kg wet	0.100		93.2	40-140	4.77	30	
Methoxychlor	0.091	0.050	mg/Kg wet	0.100		90.6	40-140	4.95	30	
Methoxychlor [2C]	0.090	0.050	mg/Kg wet	0.100		89.9	40-140	4.00	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215027 - SW-846 3546										
Matrix Spike (B215027-MS1)	Source: 18J0746-01			Prepared: 10/17/18 Analyzed: 10/19/18						
Alachlor	0.12	0.23	mg/Kg dry	0.117	ND	104	30-150			
Alachlor [2C]	0.12	0.23	mg/Kg dry	0.117	ND	105	30-150			
Aldrin	0.096	0.058	mg/Kg dry	0.117	ND	82.6	30-150			
Aldrin [2C]	0.089	0.058	mg/Kg dry	0.117	ND	75.9	30-150			
alpha-BHC	0.10	0.058	mg/Kg dry	0.117	ND	89.4	30-150			
alpha-BHC [2C]	0.083	0.058	mg/Kg dry	0.117	ND	71.4	30-150			
beta-BHC	0.097	0.058	mg/Kg dry	0.117	ND	83.2	30-150			
beta-BHC [2C]	0.086	0.058	mg/Kg dry	0.117	ND	73.7	30-150			
delta-BHC	0.094	0.058	mg/Kg dry	0.117	ND	80.1	30-150			
delta-BHC [2C]	0.079	0.058	mg/Kg dry	0.117	ND	67.8	30-150			
gamma-BHC (Lindane)	0.093	0.023	mg/Kg dry	0.117	ND	79.6	30-150			
gamma-BHC (Lindane) [2C]	0.084	0.023	mg/Kg dry	0.117	ND	71.7	30-150			
4,4'-DDD	0.090	0.047	mg/Kg dry	0.117	ND	76.8	30-150			
4,4'-DDD [2C]	0.089	0.047	mg/Kg dry	0.117	ND	75.8	30-150			
4,4'-DDE	0.094	0.047	mg/Kg dry	0.117	ND	80.8	30-150			
4,4'-DDE [2C]	0.091	0.047	mg/Kg dry	0.117	ND	78.1	30-150			
4,4'-DDT	0.093	0.047	mg/Kg dry	0.117	ND	79.4	30-150			
4,4'-DDT [2C]	0.088	0.047	mg/Kg dry	0.117	ND	75.5	30-150			
Dieldrin	0.087	0.047	mg/Kg dry	0.117	ND	74.5	30-150			
Dieldrin [2C]	0.098	0.047	mg/Kg dry	0.117	ND	84.0	30-150			
Endosulfan I	0.093	0.058	mg/Kg dry	0.117	ND	80.0	30-150			
Endosulfan I [2C]	0.088	0.058	mg/Kg dry	0.117	ND	75.6	30-150			
Endosulfan II	0.090	0.093	mg/Kg dry	0.117	ND	77.2	30-150			
Endosulfan II [2C]	0.089	0.093	mg/Kg dry	0.117	ND	76.5	30-150			
Endosulfan Sulfate	0.084	0.093	mg/Kg dry	0.117	ND	71.7	30-150			
Endosulfan Sulfate [2C]	0.087	0.093	mg/Kg dry	0.117	ND	74.6	30-150			
Endrin	0.095	0.093	mg/Kg dry	0.117	ND	81.5	30-150			
Endrin [2C]	0.086	0.093	mg/Kg dry	0.117	ND	73.4	30-150			
Endrin Aldehyde	0.10	0.093	mg/Kg dry	0.117	ND	87.5	30-150			
Endrin Aldehyde [2C]	0.089	0.093	mg/Kg dry	0.117	ND	76.2	30-150			
Endrin Ketone	0.089	0.093	mg/Kg dry	0.117	ND	76.0	30-150			
Endrin Ketone [2C]	0.086	0.093	mg/Kg dry	0.117	ND	73.4	30-150			
Heptachlor	0.098	0.058	mg/Kg dry	0.117	ND	83.5	30-150			
Heptachlor [2C]	0.091	0.058	mg/Kg dry	0.117	ND	77.9	30-150			
Heptachlor Epoxide	0.093	0.058	mg/Kg dry	0.117	ND	79.9	30-150			
Heptachlor Epoxide [2C]	0.087	0.058	mg/Kg dry	0.117	ND	74.8	30-150			
Hexachlorobenzene	0.12	0.070	mg/Kg dry	0.117	ND	101	30-150			
Hexachlorobenzene [2C]	0.099	0.070	mg/Kg dry	0.117	ND	85.1	30-150			
Methoxychlor	0.099	0.58	mg/Kg dry	0.117	ND	84.9	30-150			
Methoxychlor [2C]	0.10	0.58	mg/Kg dry	0.117	ND	85.6	30-150			
Surrogate: Decachlorobiphenyl	0.210		mg/Kg dry	0.234		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg dry	0.234		70.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg dry	0.234		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg dry	0.234		76.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215027 - SW-846 3546										
Matrix Spike Dup (B215027-MSD1)										
		Source: 18J0746-01			Prepared: 10/17/18 Analyzed: 10/19/18					
Alachlor	0.13	0.23	mg/Kg dry	0.115	ND	115	30-150	7.80	30	
Alachlor [2C]	0.12	0.23	mg/Kg dry	0.115	ND	103	30-150	3.79	30	
Aldrin	0.093	0.057	mg/Kg dry	0.115	ND	81.1	30-150	3.75	30	
Aldrin [2C]	0.085	0.057	mg/Kg dry	0.115	ND	74.4	30-150	3.96	30	
alpha-BHC	0.097	0.057	mg/Kg dry	0.115	ND	85.1	30-150	6.97	30	
alpha-BHC [2C]	0.077	0.057	mg/Kg dry	0.115	ND	67.0	30-150	8.25	30	
beta-BHC	0.091	0.057	mg/Kg dry	0.115	ND	79.6	30-150	6.34	30	
beta-BHC [2C]	0.082	0.057	mg/Kg dry	0.115	ND	71.6	30-150	4.87	30	
delta-BHC	0.089	0.057	mg/Kg dry	0.115	ND	77.7	30-150	5.08	30	
delta-BHC [2C]	0.075	0.057	mg/Kg dry	0.115	ND	65.4	30-150	5.66	30	
gamma-BHC (Lindane)	0.087	0.023	mg/Kg dry	0.115	ND	76.2	30-150	6.27	30	
gamma-BHC (Lindane) [2C]	0.078	0.023	mg/Kg dry	0.115	ND	68.5	30-150	6.48	30	
4,4'-DDD	0.086	0.046	mg/Kg dry	0.115	ND	75.0	30-150	4.19	30	
4,4'-DDD [2C]	0.085	0.046	mg/Kg dry	0.115	ND	74.2	30-150	4.16	30	
4,4'-DDE	0.092	0.046	mg/Kg dry	0.115	ND	80.1	30-150	2.84	30	
4,4'-DDE [2C]	0.088	0.046	mg/Kg dry	0.115	ND	76.7	30-150	3.80	30	
4,4'-DDT	0.089	0.046	mg/Kg dry	0.115	ND	77.6	30-150	4.30	30	
4,4'-DDT [2C]	0.085	0.046	mg/Kg dry	0.115	ND	74.2	30-150	3.66	30	
Dieldrin	0.084	0.046	mg/Kg dry	0.115	ND	73.1	30-150	3.85	30	
Dieldrin [2C]	0.094	0.046	mg/Kg dry	0.115	ND	82.1	30-150	4.24	30	
Endosulfan I	0.090	0.057	mg/Kg dry	0.115	ND	78.8	30-150	3.41	30	
Endosulfan I [2C]	0.085	0.057	mg/Kg dry	0.115	ND	74.2	30-150	3.81	30	
Endosulfan II	0.086	0.092	mg/Kg dry	0.115	ND	75.2	30-150	4.46	30	
Endosulfan II [2C]	0.086	0.092	mg/Kg dry	0.115	ND	75.2	30-150	3.64	30	
Endosulfan Sulfate	0.081	0.092	mg/Kg dry	0.115	ND	70.5	30-150	3.67	30	
Endosulfan Sulfate [2C]	0.084	0.092	mg/Kg dry	0.115	ND	73.2	30-150	3.90	30	
Endrin	0.091	0.092	mg/Kg dry	0.115	ND	79.8	30-150	4.14	30	
Endrin [2C]	0.082	0.092	mg/Kg dry	0.115	ND	71.5	30-150	4.65	30	
Endrin Aldehyde	0.098	0.092	mg/Kg dry	0.115	ND	85.8	30-150	3.89	30	
Endrin Aldehyde [2C]	0.086	0.092	mg/Kg dry	0.115	ND	75.0	30-150	3.56	30	
Endrin Ketone	0.087	0.092	mg/Kg dry	0.115	ND	76.4	30-150	1.50	30	
Endrin Ketone [2C]	0.086	0.092	mg/Kg dry	0.115	ND	75.0	30-150	0.188	30	
Heptachlor	0.092	0.057	mg/Kg dry	0.115	ND	80.7	30-150	5.31	30	
Heptachlor [2C]	0.087	0.057	mg/Kg dry	0.115	ND	75.6	30-150	4.97	30	
Heptachlor Epoxide	0.089	0.057	mg/Kg dry	0.115	ND	77.6	30-150	4.80	30	
Heptachlor Epoxide [2C]	0.084	0.057	mg/Kg dry	0.115	ND	73.2	30-150	4.18	30	
Hexachlorobenzene	0.11	0.069	mg/Kg dry	0.115	ND	98.9	30-150	3.81	30	
Hexachlorobenzene [2C]	0.093	0.069	mg/Kg dry	0.115	ND	81.5	30-150	6.29	30	
Methoxychlor	0.094	0.57	mg/Kg dry	0.115	ND	82.5	30-150	4.87	30	
Methoxychlor [2C]	0.095	0.57	mg/Kg dry	0.115	ND	83.1	30-150	4.87	30	
Surrogate: Decachlorobiphenyl	0.209		mg/Kg dry	0.229		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg dry	0.229		72.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg dry	0.229		78.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg dry	0.229		73.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215049 - SW-846 3546										
Blank (B215049-BLK1)										
Prepared: 10/17/18 Analyzed: 10/19/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.7	30-150			
LCS (B215049-BS1)										
Prepared: 10/17/18 Analyzed: 10/19/18										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		76.6	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.0	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		92.9	40-140			
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.210		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.114		mg/Kg wet	0.200		57.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.119		mg/Kg wet	0.200		59.7	30-150			
LCS Dup (B215049-BSD1)										
Prepared: 10/17/18 Analyzed: 10/19/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.5	40-140	9.79	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.6	40-140	11.8	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.6	40-140	10.3	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		105	40-140	12.6	30	
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.230		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	0.123		mg/Kg wet	0.200		61.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg wet	0.200		65.9	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214866 - SW-846 8151										
Blank (B214866-BLK1)										
Prepared: 10/16/18 Analyzed: 10/19/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							V-20, V-35
Dinoseb [2C]	ND	12	µg/kg wet							V-35
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	75.4		µg/kg wet	95.2		79.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	75.6		µg/kg wet	95.2		79.3	30-150			
LCS (B214866-BS1)										
Prepared: 10/16/18 Analyzed: 10/19/18										
2,4-D	89.3	25	µg/kg wet	125		71.4	40-140			
2,4-D [2C]	93.4	25	µg/kg wet	125		74.7	40-140			
2,4-DB	91.7	25	µg/kg wet	125		73.3	40-140			
2,4-DB [2C]	97.1	25	µg/kg wet	125		77.7	40-140			
2,4,5-TP (Silvex)	8.96	2.5	µg/kg wet	12.5		71.7	40-140			
2,4,5-TP (Silvex) [2C]	9.24	2.5	µg/kg wet	12.5		73.9	40-140			
2,4,5-T	8.70	2.5	µg/kg wet	12.5		69.6	40-140			
2,4,5-T [2C]	8.98	2.5	µg/kg wet	12.5		71.9	40-140			
Dalapon	150	62	µg/kg wet	312		47.9	40-140			
Dalapon [2C]	152	62	µg/kg wet	312		48.7	40-140			
Dicamba	8.85	2.5	µg/kg wet	12.5		70.8	40-140			
Dicamba [2C]	9.14	2.5	µg/kg wet	12.5		73.1	40-140			
Dichloroprop	92.2	25	µg/kg wet	125		73.7	40-140			
Dichloroprop [2C]	95.6	25	µg/kg wet	125		76.5	40-140			
Dinoseb	11.8	12	µg/kg wet	62.5		18.9	0-42.4			V-06, V-35
Dinoseb [2C]	11.1	12	µg/kg wet	62.5		17.7	0-41.1			V-06, V-35
MCPA	8560	2500	µg/kg wet	12500		68.5	40-140			
MCPA [2C]	7100	2500	µg/kg wet	12500		56.8	40-140			
MCPP	11600	2500	µg/kg wet	12500		92.6	40-140			
MCPP [2C]	7290	2500	µg/kg wet	12500		58.3	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	67.5		µg/kg wet	100		67.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	70.2		µg/kg wet	100		70.2	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214866 - SW-846 8151										
LCS Dup (B214866-BSD1)										
					Prepared: 10/16/18 Analyzed: 10/19/18					
2,4-D	103	25	µg/kg wet	125		82.4	40-140	14.3	30	
2,4-D [2C]	108	25	µg/kg wet	125		86.6	40-140	14.7	30	
2,4-DB	107	25	µg/kg wet	125		85.7	40-140	15.6	30	
2,4-DB [2C]	114	25	µg/kg wet	125		91.2	40-140	16.0	30	
2,4,5-TP (Silvex)	10.3	2.5	µg/kg wet	12.5		82.3	40-140	13.8	30	
2,4,5-TP (Silvex) [2C]	10.7	2.5	µg/kg wet	12.5		85.2	40-140	14.2	30	
2,4,5-T	10.1	2.5	µg/kg wet	12.5		80.7	40-140	14.8	30	
2,4,5-T [2C]	10.5	2.5	µg/kg wet	12.5		84.2	40-140	15.8	30	
Dalapon	165	62	µg/kg wet	312		52.9	40-140	9.87	30	
Dalapon [2C]	169	62	µg/kg wet	312		54.1	40-140	10.6	30	
Dicamba	10.1	2.5	µg/kg wet	12.5		80.9	40-140	13.3	30	
Dicamba [2C]	10.6	2.5	µg/kg wet	12.5		84.5	40-140	14.5	30	
Dichloroprop	105	25	µg/kg wet	125		84.0	40-140	13.0	30	
Dichloroprop [2C]	110	25	µg/kg wet	125		87.6	40-140	13.6	30	
Dinoseb	8.84	12	µg/kg wet	62.5		14.2	0-42.4	28.9	30	V-06, V-35
Dinoseb [2C]	8.22	12	µg/kg wet	62.5		13.2	0-41.1	29.7	30	V-06, V-35
MCPA	9940	2500	µg/kg wet	12500		79.5	40-140	14.9	30	
MCPA [2C]	7600	2500	µg/kg wet	12500		60.8	40-140	6.80	30	
MCPP	13600	2500	µg/kg wet	12500		109	40-140	15.8	30	
MCPP [2C]	8030	2500	µg/kg wet	12500		64.2	40-140	9.67	30	
Surrogate: 2,4-Dichlorophenylacetic acid	79.0		µg/kg wet	100		79.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	81.2		µg/kg wet	100		81.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215078 - SW-846 3546										
Blank (B215078-BLK1)										
					Prepared: 10/17/18 Analyzed: 10/18/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.91		mg/Kg wet	3.33		57.3	40-140			
LCS (B215078-BS1)										
					Prepared: 10/17/18 Analyzed: 10/18/18					
TPH (C9-C36)	23.4	8.3	mg/Kg wet	33.3		70.3	40-140			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.33		60.0	40-140			
LCS Dup (B215078-BSD1)										
					Prepared: 10/17/18 Analyzed: 10/18/18					
TPH (C9-C36)	24.8	8.3	mg/Kg wet	33.3		74.4	40-140	5.68	30	
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.3	40-140			
Matrix Spike (B215078-MS1)										
			Source: 18J0746-01		Prepared: 10/17/18 Analyzed: 10/18/18					
TPH (C9-C36)	324	98	mg/Kg dry	39.2	331	-17.5 *	40-140			MS-19
Surrogate: 2-Fluorobiphenyl	1.96		mg/Kg dry	3.92		50.1	40-140			
Matrix Spike Dup (B215078-MSD1)										
			Source: 18J0746-01		Prepared: 10/17/18 Analyzed: 10/18/18					
TPH (C9-C36)	282	98	mg/Kg dry	39.2	331	-123 *	40-140	13.7	30	MS-19
Surrogate: 2-Fluorobiphenyl	1.59		mg/Kg dry	3.92		40.6	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215319 - SW-846 3050B

Blank (B215319-BLK1)

Prepared: 10/22/18 Analyzed: 10/23/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B215319-BS1)

Prepared: 10/22/18 Analyzed: 10/23/18

Antimony	43.0	5.0	mg/Kg wet	75.5		57.0	3.8-196			
Arsenic	158	5.0	mg/Kg wet	161		97.9	83.2-116.8			
Barium	264	5.0	mg/Kg wet	260		101	82.7-117.3			
Beryllium	98.2	0.50	mg/Kg wet	97.6		101	83.4-116.8			
Cadmium	206	0.50	mg/Kg wet	211		97.5	83.4-116.6			
Chromium	131	0.99	mg/Kg wet	136		96.6	82.4-117.6			
Lead	109	1.5	mg/Kg wet	111		98.0	83-117.1			
Nickel	93.7	0.99	mg/Kg wet	91.9		102	82.9-117.5			
Selenium	183	9.9	mg/Kg wet	191		95.9	79.6-120.9			
Silver	44.8	0.99	mg/Kg wet	43.3		104	79.9-119.9			
Thallium	160	5.0	mg/Kg wet	156		102	81.4-119.2			
Vanadium	49.1	2.0	mg/Kg wet	56.7		86.7	79-121.2			
Zinc	195	2.0	mg/Kg wet	199		98.0	81.4-119.1			

LCS Dup (B215319-BSD1)

Prepared: 10/22/18 Analyzed: 10/23/18

Antimony	40.0	4.9	mg/Kg wet	75.5		53.0	3.8-196	7.17	30	
Arsenic	152	4.9	mg/Kg wet	161		94.4	83.2-116.8	3.73	30	
Barium	259	4.9	mg/Kg wet	260		99.7	82.7-117.3	1.68	30	
Beryllium	96.4	0.49	mg/Kg wet	97.6		98.7	83.4-116.8	1.85	30	
Cadmium	204	0.49	mg/Kg wet	211		96.5	83.4-116.6	1.00	30	
Chromium	130	0.97	mg/Kg wet	136		95.8	82.4-117.6	0.833	30	
Lead	103	1.5	mg/Kg wet	111		93.2	83-117.1	5.04	30	
Nickel	91.8	0.97	mg/Kg wet	91.9		99.9	82.9-117.5	2.02	30	
Selenium	176	9.7	mg/Kg wet	191		92.0	79.6-120.9	4.07	30	
Silver	42.2	0.97	mg/Kg wet	43.3		97.5	79.9-119.9	6.02	30	
Thallium	155	4.9	mg/Kg wet	156		99.6	81.4-119.2	2.64	30	
Vanadium	48.7	1.9	mg/Kg wet	56.7		86.0	79-121.2	0.811	30	
Zinc	196	1.9	mg/Kg wet	199		98.7	81.4-119.1	0.706	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215319 - SW-846 3050B										
MRL Check (B215319-MRL1)					Prepared: 10/22/18 Analyzed: 10/23/18					
Lead	0.568	0.50	mg/Kg wet	0.498		114	80-120			
Batch B215349 - SW-846 7471										
Blank (B215349-BLK1)					Prepared: 10/22/18 Analyzed: 10/23/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B215349-BS1)					Prepared: 10/22/18 Analyzed: 10/23/18					
Mercury	11.1	2.0	mg/Kg wet	11.5		96.7	71.6-127.8			
LCS Dup (B215349-BSD1)					Prepared: 10/22/18 Analyzed: 10/23/18					
Mercury	11.5	1.9	mg/Kg wet	11.5		100	71.6-127.8	3.67	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214965 - SW-846 9045C										
LCS (B214965-BS1) Prepared & Analyzed: 10/16/18										
pH	5.98		pH Units	6.00		99.7	90-110			
LCS (B214965-BS2) Prepared & Analyzed: 10/16/18										
pH	6.00		pH Units	6.00		99.9	90-110			
Batch B215260 - % Solids										
Duplicate (B215260-DUP1) Source: 18J0746-01 Prepared: 10/19/18 Analyzed: 10/21/18										
% Solids	81.2		% Wt			84.0		3.32	20	
Duplicate (B215260-DUP2) Source: 18J0746-02 Prepared: 10/19/18 Analyzed: 10/21/18										
% Solids	84.0		% Wt			84.5		0.582	20	
Duplicate (B215260-DUP3) Source: 18J0746-03 Prepared: 10/19/18 Analyzed: 10/21/18										
% Solids	84.4		% Wt			83.9		0.589	20	
Batch B215274 - SW-846 9014										
Blank (B215274-BLK1) Prepared: 10/20/18 Analyzed: 10/23/18										
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B215274-BS1) Prepared: 10/20/18 Analyzed: 10/23/18										
Reactive Cyanide	9.3	0.40	mg/Kg	10.0		92.7	83.6-111			
Batch B215406 - SM21-22 2510B Modified										
Blank (B215406-BLK1) Prepared & Analyzed: 10/23/18										
Specific conductance	ND	2.0	µmhos/cm							
LCS (B215406-BS1) Prepared & Analyzed: 10/23/18										
Specific conductance	200		µmhos/cm	192		102	90-110			
Duplicate (B215406-DUP1) Source: 18J0746-01 Prepared & Analyzed: 10/23/18										
Specific conductance	8.8	2.0	µmhos/cm			8.1		7.34	21	
Batch B215459 - SW-846 9030A										
Blank (B215459-BLK1) Prepared: 10/20/18 Analyzed: 10/23/18										
Reactive Sulfide	ND	2.0	mg/Kg							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B215459 - SW-846 9030A

LCS (B215459-BS1)

Prepared: 10/20/18 Analyzed: 10/23/18

Reactive Sulfide	13	2.0	mg/Kg	14.8		89.2	54.9-121			
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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MP34

SW-846 8081B

Lab Sample ID: 18J0746-02 Date(s) Analyzed: 10/18/2018 10/18/2018

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.425	-0.030	0.030	0.0084	
	2	6.538	-0.030	0.030	0.013	43.0
4,4'-DDT	1	7.044	-0.030	0.030	0.050	
	2	7.182	-0.030	0.030	0.047	6.2

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
O-32	A dilution was performed as part of the standard analytical procedure.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Soil	
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



18J0746

Requested Turnaround Time
 7-Day 10-Day

Due Date:
 1- M/O
 2- A
 3- A
 4- A
 5- A

Requested Analysis
 1-Day 3-Day
 2-Day 4-Day

Data Delivery
 Format: PDF EXCEL
 Other: Limit Check

CLP Like Data Pkg Required:
 pcon@vib.com; pcon@vib.com; pcon@vib.com
 Email To: Merzphilips.vhb.com; thevans@vhb.com
 Fax To #:

Address: 101 Walnut Street, Watertown, MA
 Phone: 617-607-1841
 Project Location: Sudbury, Mass
 Project Number: 12970.03
 Project Manager: Paige Cornell
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: PEC & TJP

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
1	MP32	10/11/18	10:05	x	x	S	U
3	MP34	10/11/18	14:21	x	x	S	U
3	SB49	10/11/18	14:25	x	x	S	U

ANALYSIS REQUESTED

Ignitability, pH, Reactivity	
Conductivity	
Pesticide/Herbicide	
SVOCs, PCBs, TPH	
VOCs	
MCP 14 Metals	

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define) _DI
 H2O

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Vials frozen on day of generation by 16:00

TCLP 20x Rule

Reinquisitioned by: (signature) *[Signature]*
 Date/Time: 10/15/18 13:15
 Received by: (signature) *[Signature]*
 Date/Time: 10/15/18 13:15
 Retinquisitioned by: (signature) *[Signature]*
 Date/Time: 10/15/18 09:20
 Received by: (signature) *[Signature]*
 Date/Time: 10/15/18 09:20
 Retinquisitioned by: (signature) *[Signature]*
 Date/Time: 10/15/18 2:20

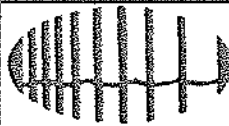
Special Requirements
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

Project Entity
 Government Municipality MWRA WRTA
 Federal 21 J School
 City Brownfield MBTA
 Other Chromatogram AINA-LAP, LLC

con-test
 ANALYTICAL LABORATORY
 www.contestlabs.com

PCB ONLY
 Soxhlet
 Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By ESD Date 10-5-18 Time 20:20

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 3.4
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? T Who was notified? LVE

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	9
Meoh-	3	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	6	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 10-5-18 @ 20:20	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory		Project #: 18J0746	
Project Location: Sudbury, MA		RTN:	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 18J0746-01 thru 18J0746-03			
Matrices: Soil			
CAM Protocol (check all that below)			
8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)
			9014 Total Cyanide/PAC CAM VI A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)
			7196 Hex Cr CAM VI B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)
			8330 Explosives CAM VIII A ()
			6860 Perchlorate CAM VIII B ()
			MassDEP APH CAM IX A ()
			TO-15 VOC CAM IX B ()
Affirmative response to Questions A through F is required for "Presumptive Certainty" status			
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions G, H and I below is required for "Presumptive Certainty" status			
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.			
Signature: <u>Tod Kopyscinski</u>		Position: Laboratory Director	
Printed Name: <u>Tod E. Kopyscinski</u>		Date: <u>10/24/18</u>	

November 9, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18J1553

Enclosed are results of analyses for samples received by the laboratory on October 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/9/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1553

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-51	18J1553-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB-50	18J1553-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/9/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1553

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-37	18J1553-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB-38	18J1553-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/9/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1553

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-39	18J1553-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP37	18J1553-06	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/9/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1553

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP38	18J1553-07	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP39	18J1553-08	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 11/02/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 6010D

Qualifications:**MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

18J1553-04[SB-38], B216433-MS1

MS-14

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Samples(s) Qualified:**Thallium**

18J1553-04[SB-38], B216433-MS1

SW-846 8081B

Qualifications:**P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:**4,4'-DDT**

18J1553-05[SB-39]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Aroclor-1016 [2C]**

B216139-BS1, B216139-BSD1

Aroclor-1260 [2C]

B216139-BS1, B216139-BSD1

SW-846 8260C

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

B216165-BSD1

Acetone

B216165-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216165-BLK1, B216165-BS1, B216165-BSD1

1,2-Dibromo-3-chloropropane (DB)

18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216165-BLK1, B216165-BS1, B216165-BSD1

2-Butanone (MEK)

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216161-BLK1, B216161-BS1, B216161-BSD1, B216165-BLK1, B216165-BS1, B216165-BSD1, S029100-CCV1

2-Hexanone (MBK)

18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216165-BLK1, B216165-BS1, B216165-BSD1

Acetone

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216161-BLK1, B216161-BS1, B216161-BSD1, B216165-BLK1, B216165-BS1, B216165-BSD1, S029100-CCV1

Bromomethane

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

18J1553-01[SB-51]

Carbon Disulfide

18J1553-01[SB-51]

Methylene Chloride

18J1553-01[SB-51]

Naphthalene

18J1553-01[SB-51]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DB)**

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

1,4-Dioxane

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

2-Butanone (MEK)

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

2-Hexanone (MBK)

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

Acetone

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

tert-Amyl Methyl Ether (TAME)

18J1553-01[SB-51], B216161-BLK1, B216161-BS1, B216161-BSD1, S029100-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216161-BLK1, B216161-BS1, B216161-BSD1, B216165-BLK1, B216165-BS1, B216165-BSD1, S029100-CCV1

Tetrahydrofuran

18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216165-BLK1, B216165-BS1, B216165-BSD1

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216165-BLK1, B216165-BS1, B216165-BSD1, S028948-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B216165-BS1, B216165-BSD1, S028948-CCV1

SW-846 8270D

Qualifications:**L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aniline**

B216271-BS1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Aniline**

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216271-BLK1, B216271-BS1, B216271-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B216271-BS1, B216271-BSD1

2,6-Dinitrotoluene

B216271-BS1, B216271-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216271-BLK1

2,6-Dinitrotoluene

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216271-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216271-BLK1, B216271-BS1, B216271-BSD1

Aniline

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39], B216271-BLK1, B216271-BS1, B216271-BSD1

SW-846 9045C

Qualifications:

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18J1553-01[SB-51], 18J1553-02[SB-50], 18J1553-03[SB-37], 18J1553-04[SB-38], 18J1553-05[SB-39], 18J1553-06[MP37], 18J1553-07[MP38], 18J1553-08[MP39]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.1	mg/Kg dry	1	V-05, R-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.084	mg/Kg dry	1	V-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Benzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Bromobenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Bromochloromethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Bromodichloromethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Bromoform	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Bromomethane	ND	0.084	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
2-Butanone (MEK)	ND	0.84	mg/Kg dry	1	V-05, R-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
n-Butylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
sec-Butylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
tert-Butylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Carbon Disulfide	ND	0.42	mg/Kg dry	1	RL-07	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Carbon Tetrachloride	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Chlorobenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Chlorodibromomethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Chloroethane	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Chloroform	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Chloromethane	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
2-Chlorotoluene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
4-Chlorotoluene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.17	mg/Kg dry	1	V-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2-Dibromoethane (EDB)	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Dibromomethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2-Dichlorobenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,3-Dichlorobenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,4-Dichlorobenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1-Dichloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2-Dichloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1-Dichloroethylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
cis-1,2-Dichloroethylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
trans-1,2-Dichloroethylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2-Dichloropropane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,3-Dichloropropane	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
2,2-Dichloropropane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1-Dichloropropene	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
cis-1,3-Dichloropropene	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
trans-1,3-Dichloropropene	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Diethyl Ether	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Diisopropyl Ether (DIPE)	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,4-Dioxane	ND	2.1	mg/Kg dry	1	V-05, V-16	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Ethylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
2-Hexanone (MBK)	ND	0.42	mg/Kg dry	1	V-05	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Isopropylbenzene (Cumene)	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Methylene Chloride	ND	0.21	mg/Kg dry	1	RL-07	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.42	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Naphthalene	ND	0.21	mg/Kg dry	1	RL-07	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
n-Propylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Styrene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1,1,2-Tetrachloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1,2,2-Tetrachloroethane	ND	0.021	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Tetrachloroethylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Tetrahydrofuran	ND	0.17	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Toluene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2,3-Trichlorobenzene	ND	0.21	mg/Kg dry	1	RL-07	SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2,4-Trichlorobenzene	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1,1-Trichloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,1,2-Trichloroethane	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Trichloroethylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Trichlorofluoromethane (Freon 11)	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2,3-Trichloropropane	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,2,4-Trimethylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
1,3,5-Trimethylbenzene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
Vinyl Chloride	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
m+p Xylene	ND	0.084	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH
o-Xylene	ND	0.042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/6/18 12:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.5	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	103	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
4-Chloroaniline	ND	0.76	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Fluoranthene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/24/2018 10:57

Field Sample #: SB-51

Sample ID: 18J1553-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 16:53	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	68.8		30-130				11/3/18 16:53		
Phenol-d6	72.8		30-130				11/3/18 16:53		
Nitrobenzene-d5	71.0		30-130				11/3/18 16:53		
2-Fluorobiphenyl	63.0		30-130				11/3/18 16:53		
2,4,6-Tribromophenol	81.2		30-130				11/3/18 16:53		
p-Terphenyl-d14	85.7		30-130				11/3/18 16:53		

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
4,4'-DDT [1]	0.0088	0.0046	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:01	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.1	30-150					11/3/18 14:01	
Decachlorobiphenyl [2]		73.4	30-150					11/3/18 14:01	
Tetrachloro-m-xylene [1]		78.2	30-150					11/3/18 14:01	
Tetrachloro-m-xylene [2]		66.8	30-150					11/3/18 14:01	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:18	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150					11/6/18 14:18	
Decachlorobiphenyl [2]		86.8	30-150					11/6/18 14:18	
Tetrachloro-m-xylene [1]		87.6	30-150					11/6/18 14:18	
Tetrachloro-m-xylene [2]		89.9	30-150					11/6/18 14:18	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/24/2018 10:57

Field Sample #: SB-51

Sample ID: 18J1553-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
2,4-DB [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
Dalapon [1]	ND	73	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
Dinoseb [1]	ND	15	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
MCPP [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 17:49	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		75.4	30-150					11/2/18 17:49	
2,4-Dichlorophenylacetic acid [2]		81.4	30-150					11/2/18 17:49	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-51

Sampled: 10/24/2018 10:57

Sample ID: 18J1553-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	24	9.8	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 23:39	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		72.9	40-140					11/2/18 23:39	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/24/2018 10:57

Field Sample #: SB-51

Sample ID: 18J1553-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Arsenic	18	2.0	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Barium	61	2.0	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Beryllium	0.43	0.20	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Cadmium	0.57	0.20	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Chromium	18	0.40	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Lead	13	0.60	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:37	EJB
Nickel	15	0.40	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Vanadium	26	0.80	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW
Zinc	26	0.80	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:28	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/24/2018 10:57

Field Sample #: SB-51

Sample ID: 18J1553-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.6°C	6.5		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	2.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	84.6		% Wt	1		SM 2540G	11/5/18	11/6/18 9:19	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-50

Sampled: 10/25/2018 09:14

Sample ID: 18J1553-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.085	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Bromomethane	ND	0.0085	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Carbon Disulfide	ND	0.0051	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Chlorodibromomethane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Chloroethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Chloromethane	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2-Dibromoethane (EDB)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,3-Dichloropropane	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
cis-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
trans-1,3-Dichloropropene	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Diethyl Ether	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Diisopropyl Ether (DIPE)	ND	0.00085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,4-Dioxane	ND	0.085	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-50

Sampled: 10/25/2018 09:14

Sample ID: 18J1553-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Methylene Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Naphthalene	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Tetrahydrofuran	ND	0.0085	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
Vinyl Chloride	ND	0.0085	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 8:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.0	70-130	11/1/18 8:40
Toluene-d8	95.6	70-130	11/1/18 8:40
4-Bromofluorobenzene	96.1	70-130	11/1/18 8:40

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-50

Sampled: 10/25/2018 09:14

Sample ID: 18J1553-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Aniline	ND	0.42	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
4-Chloroaniline	ND	0.81	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4-Dinitrophenol	ND	0.81	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 09:14

Field Sample #: SB-50

Sample ID: 18J1553-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
4-Nitrophenol	ND	0.81	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 18:57	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		59.2	30-130					11/3/18 18:57	
Phenol-d6		59.7	30-130					11/3/18 18:57	
Nitrobenzene-d5		59.6	30-130					11/3/18 18:57	
2-Fluorobiphenyl		50.6	30-130					11/3/18 18:57	
2,4,6-Tribromophenol		63.0	30-130					11/3/18 18:57	
p-Terphenyl-d14		69.8	30-130					11/3/18 18:57	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-50

Sampled: 10/25/2018 09:14

Sample ID: 18J1553-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Aldrin [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
alpha-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
beta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
delta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
4,4'-DDD [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
4,4'-DDE [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
4,4'-DDT [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Dieldrin [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endosulfan I [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endosulfan II [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endosulfan sulfate [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endrin [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endrin aldehyde [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Endrin ketone [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Heptachlor [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Hexachlorobenzene [1]	ND	0.0074	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Methoxychlor [1]	ND	0.062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.3	30-150					11/3/18 14:29	
Decachlorobiphenyl [2]		86.7	30-150					11/3/18 14:29	
Tetrachloro-m-xylene [1]		95.2	30-150					11/3/18 14:29	
Tetrachloro-m-xylene [2]		74.8	30-150					11/3/18 14:29	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-50

Sampled: 10/25/2018 09:14

Sample ID: 18J1553-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:36	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.8	30-150					11/6/18 14:36	
Decachlorobiphenyl [2]		81.8	30-150					11/6/18 14:36	
Tetrachloro-m-xylene [1]		82.8	30-150					11/6/18 14:36	
Tetrachloro-m-xylene [2]		85.8	30-150					11/6/18 14:36	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 09:14

Field Sample #: SB-50

Sample ID: 18J1553-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
2,4-DB [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
2,4,5-TP (Silvex) [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
2,4,5-T [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
Dalalpon [1]	ND	78	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
Dicamba [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
Dichloroprop [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
Dinoseb [1]	ND	16	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
MCPA [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
MCPP [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 18:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		81.5	30-150					11/2/18 18:29	
2,4-Dichlorophenylacetic acid [2]		87.6	30-150					11/2/18 18:29	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 09:14

Field Sample #: SB-50

Sample ID: 18J1553-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12	10	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 22:09	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		71.6	40-140					11/2/18 22:09	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 09:14

Field Sample #: SB-50

Sample ID: 18J1553-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Arsenic	7.2	2.1	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Barium	36	2.1	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Beryllium	0.42	0.21	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Cadmium	0.26	0.21	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Chromium	14	0.42	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Lead	9.3	0.63	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:39	EJB
Nickel	8.2	0.42	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Vanadium	15	0.84	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW
Zinc	21	0.84	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:32	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 09:14

Field Sample #: SB-50

Sample ID: 18J1553-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.5°C	5.6		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	3.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	79.6		% Wt	1		SM 2540G	11/5/18	11/6/18 9:19	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Bromomethane	ND	0.0082	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Chlorodibromomethane	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Chloroethane	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Chloromethane	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,3-Dichloropropane	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
cis-1,3-Dichloropropene	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
trans-1,3-Dichloropropene	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Diethyl Ether	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,4-Dioxane	ND	0.082	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Methylene Chloride	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Naphthalene	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Tetrahydrofuran	ND	0.0082	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
Vinyl Chloride	ND	0.0082	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	99.8	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Benzo(b)fluoranthene	0.23	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Chrysene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Fluoranthene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Pyrene	0.30	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:23	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		64.7	30-130					11/3/18 19:23	
Phenol-d6		66.9	30-130					11/3/18 19:23	
Nitrobenzene-d5		65.3	30-130					11/3/18 19:23	
2-Fluorobiphenyl		56.9	30-130					11/3/18 19:23	
2,4,6-Tribromophenol		72.2	30-130					11/3/18 19:23	
p-Terphenyl-d14		77.0	30-130					11/3/18 19:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
4,4'-DDT [1]	0.0098	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endosulfan II [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endosulfan sulfate [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endrin [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endrin aldehyde [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Endrin ketone [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 14:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.6	30-150					11/3/18 14:56	
Decachlorobiphenyl [2]		91.8	30-150					11/3/18 14:56	
Tetrachloro-m-xylene [1]		92.5	30-150					11/3/18 14:56	
Tetrachloro-m-xylene [2]		75.1	30-150					11/3/18 14:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 14:54	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.3	30-150					11/6/18 14:54	
Decachlorobiphenyl [2]		88.7	30-150					11/6/18 14:54	
Tetrachloro-m-xylene [1]		86.5	30-150					11/6/18 14:54	
Tetrachloro-m-xylene [2]		89.2	30-150					11/6/18 14:54	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-37

Sampled: 10/25/2018 10:20

Sample ID: 18J1553-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
Dalapon [1]	ND	69	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:09	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		73.0	30-150					11/2/18 19:09	
2,4-Dichlorophenylacetic acid [2]		75.1	30-150					11/2/18 19:09	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 10:20

Field Sample #: SB-37

Sample ID: 18J1553-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	32	9.1	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 23:57	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		71.0	40-140					11/2/18 23:57	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 10:20

Field Sample #: SB-37

Sample ID: 18J1553-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Arsenic	14	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Barium	52	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Beryllium	0.48	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Cadmium	0.43	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Chromium	17	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Lead	14	0.55	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:40	EJB
Nickel	13	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Vanadium	21	0.73	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW
Zinc	29	0.73	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:37	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 10:20

Field Sample #: SB-37

Sample ID: 18J1553-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.3°C	4.8		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	ND	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	90.7		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.091	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Bromomethane	ND	0.0091	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
2-Butanone (MEK)	ND	0.036	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Carbon Disulfide	ND	0.0054	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Chlorodibromomethane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Chloroethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Chloroform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Chloromethane	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,3-Dichloropropane	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
cis-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
trans-1,3-Dichloropropene	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Diethyl Ether	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Diisopropyl Ether (DIPE)	ND	0.00091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,4-Dioxane	ND	0.091	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Methylene Chloride	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Naphthalene	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Tetrahydrofuran	ND	0.0091	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
Vinyl Chloride	ND	0.0091	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
m+p Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 9:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.1	70-130	
Toluene-d8	95.2	70-130	
4-Bromofluorobenzene	98.2	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 19:49	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		63.7	30-130					11/3/18 19:49	
Phenol-d6		64.8	30-130					11/3/18 19:49	
Nitrobenzene-d5		65.4	30-130					11/3/18 19:49	
2-Fluorobiphenyl		55.2	30-130					11/3/18 19:49	
2,4,6-Tribromophenol		69.9	30-130					11/3/18 19:49	
p-Terphenyl-d14		75.3	30-130					11/3/18 19:49	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.4	30-150					11/3/18 15:23	
Decachlorobiphenyl [2]		74.7	30-150					11/3/18 15:23	
Tetrachloro-m-xylene [1]		80.1	30-150					11/3/18 15:23	
Tetrachloro-m-xylene [2]		65.9	30-150					11/3/18 15:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-38

Sampled: 10/25/2018 11:05

Sample ID: 18J1553-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:11	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.2	30-150					11/6/18 15:11	
Decachlorobiphenyl [2]		79.4	30-150					11/6/18 15:11	
Tetrachloro-m-xylene [1]		79.3	30-150					11/6/18 15:11	
Tetrachloro-m-xylene [2]		81.5	30-150					11/6/18 15:11	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 11:05

Field Sample #: SB-38

Sample ID: 18J1553-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
2,4-DB [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
Dalapon [1]	ND	72	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 19:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		69.7	30-150					11/2/18 19:48	
2,4-Dichlorophenylacetic acid [2]		73.9	30-150					11/2/18 19:48	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 11:05

Field Sample #: SB-38

Sample ID: 18J1553-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12	9.6	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 22:27	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		78.4	40-140					11/2/18 22:27	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 11:05

Field Sample #: SB-38

Sample ID: 18J1553-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1	MS-07	SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Arsenic	3.9	1.9	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Barium	26	1.9	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Beryllium	0.43	0.19	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Chromium	12	0.38	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Lead	13	0.57	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:42	EJB
Nickel	8.1	0.38	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Thallium	ND	1.9	mg/Kg dry	1	MS-14	SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Vanadium	15	0.77	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW
Zinc	16	0.77	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:23	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 11:05

Field Sample #: SB-38

Sample ID: 18J1553-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.6°C	4.3		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	4.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	86.2		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.086	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Bromomethane	ND	0.0086	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Carbon Disulfide	ND	0.0052	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Chlorodibromomethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Chloroethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Chloromethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,3-Dichloropropane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
cis-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
trans-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Diethyl Ether	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,4-Dioxane	ND	0.086	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Methylene Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Naphthalene	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Tetrahydrofuran	ND	0.0086	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
Vinyl Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:02	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.5	70-130	
Toluene-d8	97.5	70-130	
4-Bromofluorobenzene	97.6	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Aniline	ND	0.36	mg/Kg dry	1	V-34, V-05	SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Benzo(a)anthracene	0.57	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Benzo(a)pyrene	0.29	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Benzo(b)fluoranthene	0.59	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Benzo(k)fluoranthene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Chrysene	0.56	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Fluoranthene	1.0	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Indeno(1,2,3-cd)pyrene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Pyrene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:15	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		51.6	30-130					11/3/18 20:15	
Phenol-d6		53.8	30-130					11/3/18 20:15	
Nitrobenzene-d5		53.4	30-130					11/3/18 20:15	
2-Fluorobiphenyl		46.5	30-130					11/3/18 20:15	
2,4,6-Tribromophenol		55.4	30-130					11/3/18 20:15	
p-Terphenyl-d14		60.3	30-130					11/3/18 20:15	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
4,4'-DDT [1]	0.0089	0.0044	mg/Kg dry	1	P-01	SW-846 8081B	11/1/18	11/3/18 15:50	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 15:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.4	30-150					11/3/18 15:50	
Decachlorobiphenyl [2]		93.4	30-150					11/3/18 15:50	
Tetrachloro-m-xylene [1]		91.0	30-150					11/3/18 15:50	
Tetrachloro-m-xylene [2]		72.5	30-150					11/3/18 15:50	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:28	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					11/6/18 15:28	
Decachlorobiphenyl [2]		85.7	30-150					11/6/18 15:28	
Tetrachloro-m-xylene [1]		83.2	30-150					11/6/18 15:28	
Tetrachloro-m-xylene [2]		84.9	30-150					11/6/18 15:28	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: SB-39

Sampled: 10/25/2018 13:10

Sample ID: 18J1553-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
Dalalpon [1]	ND	68	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/2/18 20:28	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		74.4	30-150					11/2/18 20:28	
2,4-Dichlorophenylacetic acid [2]		76.4	30-150					11/2/18 20:28	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 13:10

Field Sample #: SB-39

Sample ID: 18J1553-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	100	9.1	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/3/18 0:33	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		82.7	40-140					11/3/18 0:33	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 13:10

Field Sample #: SB-39

Sample ID: 18J1553-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Arsenic	11	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Barium	92	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Beryllium	0.48	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Cadmium	0.38	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Chromium	21	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Lead	12	0.55	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:48	EJB
Nickel	16	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Vanadium	29	0.74	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW
Zinc	40	0.74	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:42	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/25/2018 13:10

Field Sample #: SB-39

Sample ID: 18J1553-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.6°C	5.7		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	2.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	90.9		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.069	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Chlorodibromomethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Chloroethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Diethyl Ether	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Diisopropyl Ether (DIPE)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,4-Dioxane	ND	0.069	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Methylene Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Naphthalene	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.1	70-130	11/1/18 10:29
Toluene-d8	96.0	70-130	11/1/18 10:29
4-Bromofluorobenzene	95.8	70-130	11/1/18 10:29

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 20:41	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		47.5	30-130					11/3/18 20:41	
Phenol-d6		48.3	30-130					11/3/18 20:41	
Nitrobenzene-d5		50.8	30-130					11/3/18 20:41	
2-Fluorobiphenyl		41.3	30-130					11/3/18 20:41	
2,4,6-Tribromophenol		50.6	30-130					11/3/18 20:41	
p-Terphenyl-d14		55.3	30-130					11/3/18 20:41	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endosulfan II [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endosulfan sulfate [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endrin [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endrin aldehyde [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Endrin ketone [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 16:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		98.3	30-150					11/3/18 16:17	
Decachlorobiphenyl [2]		98.6	30-150					11/3/18 16:17	
Tetrachloro-m-xylene [1]		104	30-150					11/3/18 16:17	
Tetrachloro-m-xylene [2]		84.0	30-150					11/3/18 16:17	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP37

Sampled: 10/26/2018 08:30

Sample ID: 18J1553-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 15:46	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.7	30-150					11/6/18 15:46	
Decachlorobiphenyl [2]		79.9	30-150					11/6/18 15:46	
Tetrachloro-m-xylene [1]		77.0	30-150					11/6/18 15:46	
Tetrachloro-m-xylene [2]		79.1	30-150					11/6/18 15:46	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 08:30

Field Sample #: MP37

Sample ID: 18J1553-06

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 0:27	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		76.9	30-150					11/3/18 0:27	
2,4-Dichlorophenylacetic acid [2]		82.7	30-150					11/3/18 0:27	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 08:30

Field Sample #: MP37

Sample ID: 18J1553-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	26	9.1	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 22:45	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	75.3		40-140					11/2/18 22:45	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 08:30

Field Sample #: MP37

Sample ID: 18J1553-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Arsenic	5.6	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Barium	26	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Beryllium	0.26	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Cadmium	0.18	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Chromium	8.6	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Lead	19	0.54	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:35	EJB
Nickel	7.2	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Vanadium	11	0.72	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW
Zinc	15	0.72	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:47	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 08:30

Field Sample #: MP37

Sample ID: 18J1553-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @21.6°C	4.9		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	3.0	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	91.3		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.073	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Bromomethane	ND	0.0073	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Chloroethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Chloromethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Diethyl Ether	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Diisopropyl Ether (DIPE)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,4-Dioxane	ND	0.073	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Methylene Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Naphthalene	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2,3-Trichlorobenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
Vinyl Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 10:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.8	70-130	11/1/18 10:56
Toluene-d8	95.4	70-130	11/1/18 10:56
4-Bromofluorobenzene	96.2	70-130	11/1/18 10:56

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:07	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		68.7	30-130					11/3/18 21:07	
Phenol-d6		72.6	30-130					11/3/18 21:07	
Nitrobenzene-d5		70.6	30-130					11/3/18 21:07	
2-Fluorobiphenyl		60.0	30-130					11/3/18 21:07	
2,4,6-Tribromophenol		78.6	30-130					11/3/18 21:07	
p-Terphenyl-d14		82.4	30-130					11/3/18 21:07	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.9	30-150					11/3/18 19:23	
Decachlorobiphenyl [2]		86.8	30-150					11/3/18 19:23	
Tetrachloro-m-xylene [1]		89.7	30-150					11/3/18 19:23	
Tetrachloro-m-xylene [2]		74.9	30-150					11/3/18 19:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:03	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.9	30-150					11/6/18 16:03	
Decachlorobiphenyl [2]		92.9	30-150					11/6/18 16:03	
Tetrachloro-m-xylene [1]		91.0	30-150					11/6/18 16:03	
Tetrachloro-m-xylene [2]		93.8	30-150					11/6/18 16:03	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP38

Sampled: 10/26/2018 10:05

Sample ID: 18J1553-07

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:07	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	101	30-150						11/3/18 1:07	
2,4-Dichlorophenylacetic acid [2]	104	30-150						11/3/18 1:07	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 10:05

Field Sample #: MP38

Sample ID: 18J1553-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	18	9.0	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 23:03	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		76.9	40-140					11/2/18 23:03	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 10:05

Field Sample #: MP38

Sample ID: 18J1553-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Arsenic	11	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Barium	78	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Beryllium	0.49	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Cadmium	0.35	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Chromium	21	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Lead	12	0.54	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:49	EJB
Nickel	18	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Vanadium	23	0.71	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW
Zinc	43	0.71	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:52	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 10:05

Field Sample #: MP38

Sample ID: 18J1553-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @22.2°C	5.6		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	3.5	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	91.5		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Bromomethane	ND	0.0077	mg/Kg dry	1	V-34	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Chloroethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Chloromethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
trans-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Diethyl Ether	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,4-Dioxane	ND	0.077	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Methylene Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Naphthalene	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1	R-05	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg dry	1	V-16	SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
Vinyl Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/1/18	11/1/18 11:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.8	70-130	11/1/18 11:30
Toluene-d8	96.5	70-130	11/1/18 11:30
4-Bromofluorobenzene	98.3	70-130	11/1/18 11:30

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Aniline	ND	0.38	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Benzo(a)anthracene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Benzo(a)pyrene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Benzo(b)fluoranthene	0.83	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Benzo(g,h,i)perylene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Benzo(k)fluoranthene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-34	SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Chrysene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Fluoranthene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Indeno(1,2,3-cd)pyrene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Pyrene	0.72	0.19	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/2/18	11/3/18 21:33	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.8	30-130					11/3/18 21:33	
Phenol-d6		78.1	30-130					11/3/18 21:33	
Nitrobenzene-d5		74.5	30-130					11/3/18 21:33	
2-Fluorobiphenyl		64.9	30-130					11/3/18 21:33	
2,4,6-Tribromophenol		86.1	30-130					11/3/18 21:33	
p-Terphenyl-d14		86.4	30-130					11/3/18 21:33	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/1/18	11/3/18 19:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		109	30-150					11/3/18 19:50	
Decachlorobiphenyl [2]		112	30-150					11/3/18 19:50	
Tetrachloro-m-xylene [1]		95.5	30-150					11/3/18 19:50	
Tetrachloro-m-xylene [2]		80.3	30-150					11/3/18 19:50	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	11/1/18	11/6/18 16:21	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.4	30-150					11/6/18 16:21	
Decachlorobiphenyl [2]		86.7	30-150					11/6/18 16:21	
Tetrachloro-m-xylene [1]		85.1	30-150					11/6/18 16:21	
Tetrachloro-m-xylene [2]		87.1	30-150					11/6/18 16:21	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 12:35

Field Sample #: MP39

Sample ID: 18J1553-08

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
Dalalpon [1]	ND	69	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/1/18	11/3/18 1:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		72.0	30-150					11/3/18 1:47	
2,4-Dichlorophenylacetic acid [2]		78.4	30-150					11/3/18 1:47	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Field Sample #: MP39

Sampled: 10/26/2018 12:35

Sample ID: 18J1553-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	31	9.0	mg/Kg dry	1		SW-846 8100 Modified	11/2/18	11/2/18 23:21	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		80.1	40-140					11/2/18 23:21	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 12:35

Field Sample #: MP39

Sample ID: 18J1553-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Arsenic	7.3	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Barium	120	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Beryllium	0.60	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Cadmium	0.27	0.18	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Chromium	20	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Lead	8.7	0.55	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	11/6/18	11/6/18 13:51	EJB
Nickel	16	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Vanadium	22	0.73	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW
Zinc	33	0.73	mg/Kg dry	1		SW-846 6010D	11/5/18	11/6/18 13:57	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18J1553

Date Received: 10/31/2018

Sampled: 10/26/2018 12:35

Field Sample #: MP39

Sample ID: 18J1553-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/2/18	11/2/18 14:48	LED
pH @22.3°C	5.7		pH Units	1	H-03	SW-846 9045C	11/1/18	11/1/18 19:46	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/1/18	11/5/18 17:05	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/1/18	11/5/18 15:05	DJM
Specific conductance	2.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/1/18	11/1/18 15:00	EC
% Solids	90.6		% Wt	1		SM 2540G	11/5/18	11/6/18 9:20	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18J1553-01 [SB-51]	B216456	11/05/18
18J1553-02 [SB-50]	B216456	11/05/18
18J1553-03 [SB-37]	B216456	11/05/18
18J1553-04 [SB-38]	B216456	11/05/18
18J1553-05 [SB-39]	B216456	11/05/18
18J1553-06 [MP37]	B216456	11/05/18
18J1553-07 [MP38]	B216456	11/05/18
18J1553-08 [MP39]	B216456	11/05/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18J1553-01 [SB-51]	B216167	1.00	11/01/18
18J1553-02 [SB-50]	B216167	1.00	11/01/18
18J1553-03 [SB-37]	B216167	1.00	11/01/18
18J1553-04 [SB-38]	B216167	1.00	11/01/18
18J1553-05 [SB-39]	B216167	1.00	11/01/18
18J1553-06 [MP37]	B216167	1.00	11/01/18
18J1553-07 [MP38]	B216167	1.00	11/01/18
18J1553-08 [MP39]	B216167	1.00	11/01/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18J1553-01 [SB-51]	B216314	50.0	11/02/18
18J1553-02 [SB-50]	B216314	50.0	11/02/18
18J1553-03 [SB-37]	B216314	50.0	11/02/18
18J1553-04 [SB-38]	B216314	50.0	11/02/18
18J1553-05 [SB-39]	B216314	50.0	11/02/18
18J1553-06 [MP37]	B216314	50.0	11/02/18
18J1553-07 [MP38]	B216314	50.0	11/02/18
18J1553-08 [MP39]	B216314	50.0	11/02/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216433	1.48	50.0	11/05/18
18J1553-02 [SB-50]	B216433	1.50	50.0	11/05/18
18J1553-03 [SB-37]	B216433	1.51	50.0	11/05/18
18J1553-04 [SB-38]	B216433	1.52	50.0	11/05/18
18J1553-05 [SB-39]	B216433	1.49	50.0	11/05/18
18J1553-06 [MP37]	B216433	1.51	50.0	11/05/18
18J1553-07 [MP38]	B216433	1.53	50.0	11/05/18
18J1553-08 [MP39]	B216433	1.50	50.0	11/05/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216478	0.596	50.0	11/06/18
18J1553-02 [SB-50]	B216478	0.613	50.0	11/06/18

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-03 [SB-37]	B216478	0.604	50.0	11/06/18
18J1553-04 [SB-38]	B216478	0.621	50.0	11/06/18
18J1553-05 [SB-39]	B216478	0.605	50.0	11/06/18
18J1553-06 [MP37]	B216478	0.619	50.0	11/06/18
18J1553-07 [MP38]	B216478	0.612	50.0	11/06/18
18J1553-08 [MP39]	B216478	0.614	50.0	11/06/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216154	10.3	10.0	11/01/18
18J1553-02 [SB-50]	B216154	10.2	10.0	11/01/18
18J1553-03 [SB-37]	B216154	10.6	10.0	11/01/18
18J1553-04 [SB-38]	B216154	10.3	10.0	11/01/18
18J1553-05 [SB-39]	B216154	10.1	10.0	11/01/18
18J1553-06 [MP37]	B216154	10.5	10.0	11/01/18
18J1553-07 [MP38]	B216154	10.1	10.0	11/01/18
18J1553-08 [MP39]	B216154	10.1	10.0	11/01/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216139	10.5	10.0	11/01/18
18J1553-02 [SB-50]	B216139	10.1	10.0	11/01/18
18J1553-03 [SB-37]	B216139	10.9	10.0	11/01/18
18J1553-04 [SB-38]	B216139	10.4	10.0	11/01/18
18J1553-05 [SB-39]	B216139	10.3	10.0	11/01/18
18J1553-06 [MP37]	B216139	10.8	10.0	11/01/18
18J1553-07 [MP38]	B216139	10.2	10.0	11/01/18
18J1553-08 [MP39]	B216139	10.8	10.0	11/01/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216247	30.1	1.00	11/02/18
18J1553-02 [SB-50]	B216247	30.1	1.00	11/02/18
18J1553-03 [SB-37]	B216247	30.2	1.00	11/02/18
18J1553-04 [SB-38]	B216247	30.1	1.00	11/02/18
18J1553-05 [SB-39]	B216247	30.3	1.00	11/02/18
18J1553-06 [MP37]	B216247	30.1	1.00	11/02/18
18J1553-07 [MP38]	B216247	30.2	1.00	11/02/18
18J1553-08 [MP39]	B216247	30.7	1.00	11/02/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216140	20.1	5.00	11/01/18
18J1553-02 [SB-50]	B216140	20.1	5.00	11/01/18
18J1553-03 [SB-37]	B216140	20.1	5.00	11/01/18
18J1553-04 [SB-38]	B216140	20.2	5.00	11/01/18

Sample Extraction Data

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-05 [SB-39]	B216140	20.2	5.00	11/01/18
18J1553-06 [MP37]	B216140	20.0	5.00	11/01/18
18J1553-07 [MP38]	B216140	20.1	5.00	11/01/18
18J1553-08 [MP39]	B216140	20.1	5.00	11/01/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18J1553-01 [SB-51]	B216161	8.91	6.37	1	50	11/01/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-02 [SB-50]	B216165	7.35	10.0	11/01/18
18J1553-03 [SB-37]	B216165	6.69	10.0	11/01/18
18J1553-04 [SB-38]	B216165	6.39	10.0	11/01/18
18J1553-05 [SB-39]	B216165	6.39	10.0	11/01/18
18J1553-06 [MP37]	B216165	7.90	10.0	11/01/18
18J1553-07 [MP38]	B216165	7.51	10.0	11/01/18
18J1553-08 [MP39]	B216165	7.21	10.0	11/01/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216271	30.8	1.00	11/02/18
18J1553-02 [SB-50]	B216271	30.7	1.00	11/02/18
18J1553-03 [SB-37]	B216271	30.5	1.00	11/02/18
18J1553-04 [SB-38]	B216271	30.0	1.00	11/02/18
18J1553-05 [SB-39]	B216271	30.8	1.00	11/02/18
18J1553-06 [MP37]	B216271	30.5	1.00	11/02/18
18J1553-07 [MP38]	B216271	30.5	1.00	11/02/18
18J1553-08 [MP39]	B216271	30.0	1.00	11/02/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216215	25.5	250	11/01/18
18J1553-02 [SB-50]	B216215	25.1	250	11/01/18
18J1553-03 [SB-37]	B216215	25.7	250	11/01/18
18J1553-04 [SB-38]	B216215	25.2	250	11/01/18
18J1553-05 [SB-39]	B216215	25.3	250	11/01/18
18J1553-06 [MP37]	B216215	25.8	250	11/01/18
18J1553-07 [MP38]	B216215	25.2	250	11/01/18
18J1553-08 [MP39]	B216215	25.6	250	11/01/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-01 [SB-51]	B216441	25.5	250	11/01/18

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Sample Extraction Data**SW-846 9030A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18J1553-02 [SB-50]	B216441	25.1	250	11/01/18
18J1553-03 [SB-37]	B216441	25.7	250	11/01/18
18J1553-04 [SB-38]	B216441	25.2	250	11/01/18
18J1553-05 [SB-39]	B216441	25.3	250	11/01/18
18J1553-06 [MP37]	B216441	25.8	250	11/01/18
18J1553-07 [MP38]	B216441	25.2	250	11/01/18
18J1553-08 [MP39]	B216441	25.6	250	11/01/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18J1553-01 [SB-51]	B216238	20.0	11/01/18
18J1553-02 [SB-50]	B216238	20.0	11/01/18
18J1553-03 [SB-37]	B216238	20.0	11/01/18
18J1553-04 [SB-38]	B216238	20.0	11/01/18
18J1553-05 [SB-39]	B216238	20.0	11/01/18
18J1553-06 [MP37]	B216238	20.0	11/01/18
18J1553-07 [MP38]	B216238	20.0	11/01/18
18J1553-08 [MP39]	B216238	20.0	11/01/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216161 - SW-846 5035

Blank (B216161-BLK1)

Prepared: 11/01/18 Analyzed: 11/06/18

Acetone	ND	2.5	mg/Kg wet							R-05, V-05
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							V-05
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							R-05
2-Butanone (MEK)	ND	1.0	mg/Kg wet							R-05, V-05
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-05, V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							V-05
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216161 - SW-846 5035

Blank (B216161-BLK1)

Prepared: 11/01/18 Analyzed: 11/06/18

n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.20	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0218		mg/Kg wet	0.0250		87.3	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			

LCS (B216161-BS1)

Prepared: 11/01/18 Analyzed: 11/06/18

Acetone	0.0843	0.057	mg/Kg wet	0.113		74.4	40-160			V-05, R-05 †
tert-Amyl Methyl Ether (TAME)	0.00862	0.00057	mg/Kg wet	0.0113		76.1	70-130			V-05
Benzene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130			
Bromochloromethane	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130			
Bromodichloromethane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Bromoform	0.0102	0.0011	mg/Kg wet	0.0113		90.1	70-130			
Bromomethane	0.00677	0.0023	mg/Kg wet	0.0113		59.7	40-160			R-05, L-14 †
2-Butanone (MEK)	0.0800	0.023	mg/Kg wet	0.113		70.6	40-160			V-05, R-05 †
n-Butylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130			
sec-Butylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
tert-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.00954	0.00057	mg/Kg wet	0.0113		84.2	70-130			
Carbon Disulfide	0.0140	0.011	mg/Kg wet	0.0113		124	70-130			
Carbon Tetrachloride	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
Chlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
Chlorodibromomethane	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Chloroethane	0.0108	0.0023	mg/Kg wet	0.0113		94.9	70-130			
Chloroform	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
Chloromethane	0.0106	0.0023	mg/Kg wet	0.0113		93.3	40-160			†
2-Chlorotoluene	0.0105	0.0011	mg/Kg wet	0.0113		93.0	70-130			
4-Chlorotoluene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00839	0.0045	mg/Kg wet	0.0113		74.0	70-130			V-05
1,2-Dibromoethane (EDB)	0.0115	0.00057	mg/Kg wet	0.0113		102	70-130			
Dibromomethane	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
1,2-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichlorobenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216161 - SW-846 5035										
LCS (B216161-BS1)										
					Prepared: 11/01/18 Analyzed: 11/06/18					
Dichlorodifluoromethane (Freon 12)	0.0120	0.0023	mg/Kg wet	0.0113		106	40-160			†
1,1-Dichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
1,2-Dichloroethane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130			
cis-1,2-Dichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
trans-1,2-Dichloroethylene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
1,2-Dichloropropane	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichloropropane	0.0110	0.00057	mg/Kg wet	0.0113		96.7	70-130			
2,2-Dichloropropane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,1-Dichloropropene	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130			
cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		111	70-130			
trans-1,3-Dichloropropene	0.0134	0.00057	mg/Kg wet	0.0113		118	70-130			
Diethyl Ether	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130			
Diisopropyl Ether (DIPE)	0.0113	0.00057	mg/Kg wet	0.0113		99.3	70-130			
1,4-Dioxane	0.0826	0.057	mg/Kg wet	0.113		72.9	40-160			V-05, V-16 †
Ethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
Hexachlorobutadiene	0.0130	0.0011	mg/Kg wet	0.0113		114	70-130			
2-Hexanone (MBK)	0.0914	0.011	mg/Kg wet	0.113		80.6	40-160			V-05 †
Isopropylbenzene (Cumene)	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130			
p-Isopropyltoluene (p-Cymene)	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0109	0.0011	mg/Kg wet	0.0113		96.4	70-130			
Methylene Chloride	0.0113	0.0057	mg/Kg wet	0.0113		100	70-130			
4-Methyl-2-pentanone (MIBK)	0.0910	0.011	mg/Kg wet	0.113		80.3	40-160			†
Naphthalene	0.0102	0.0023	mg/Kg wet	0.0113		90.4	70-130			
n-Propylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Styrene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1,1,2-Tetrachloroethane	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,1,1,2,2-Tetrachloroethane	0.00954	0.00057	mg/Kg wet	0.0113		84.2	70-130			
Tetrachloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Tetrahydrofuran	0.00916	0.0045	mg/Kg wet	0.0113		80.8	70-130			
Toluene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130			
1,2,3-Trichlorobenzene	0.0112	0.0045	mg/Kg wet	0.0113		99.1	70-130			
1,2,4-Trichlorobenzene	0.0102	0.0011	mg/Kg wet	0.0113		90.3	70-130			
1,1,1-Trichloroethane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
Trichloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
Trichlorofluoromethane (Freon 11)	0.0110	0.0023	mg/Kg wet	0.0113		96.9	70-130			
1,2,3-Trichloropropane	0.00920	0.0023	mg/Kg wet	0.0113		81.2	70-130			
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3,5-Trimethylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Vinyl Chloride	0.0142	0.0023	mg/Kg wet	0.0113		125	70-130			
m+p Xylene	0.0232	0.0023	mg/Kg wet	0.0227		102	70-130			
o-Xylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0254		mg/Kg wet	0.0283		89.6	70-130			
Surrogate: Toluene-d8	0.0284		mg/Kg wet	0.0283		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216161 - SW-846 5035										
LCS Dup (B216161-BSD1)										
					Prepared: 11/01/18 Analyzed: 11/06/18					
Acetone	0.139	0.057	mg/Kg wet	0.113		122	40-160	48.7 *	20	R-05, V-05 †
tert-Amyl Methyl Ether (TAME)	0.00859	0.00057	mg/Kg wet	0.0113		75.8	70-130	0.395	20	V-05
Benzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	3.53	20	
Bromobenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	3.29	20	
Bromochloromethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	6.63	20	
Bromodichloromethane	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	6.65	20	
Bromoform	0.00996	0.0011	mg/Kg wet	0.0113		87.9	70-130	2.47	20	
Bromomethane	0.00884	0.0023	mg/Kg wet	0.0113		78.0	40-160	26.6 *	20	R-05 †
2-Butanone (MEK)	0.108	0.023	mg/Kg wet	0.113		95.3	40-160	29.7 *	20	R-05, V-05 †
n-Butylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	1.20	20	
sec-Butylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	1.84	20	
tert-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	0.393	20	
tert-Butyl Ethyl Ether (TBEE)	0.00874	0.00057	mg/Kg wet	0.0113		77.1	70-130	8.80	20	
Carbon Disulfide	0.0138	0.011	mg/Kg wet	0.0113		122	70-130	1.96	20	
Carbon Tetrachloride	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	0.833	20	
Chlorobenzene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	2.44	20	
Chlorodibromomethane	0.0130	0.00057	mg/Kg wet	0.0113		115	70-130	0.961	20	
Chloroethane	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130	14.0	20	
Chloroform	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130	3.48	20	
Chloromethane	0.0128	0.0023	mg/Kg wet	0.0113		113	40-160	19.0	20	†
2-Chlorotoluene	0.0107	0.0011	mg/Kg wet	0.0113		94.3	70-130	1.39	20	
4-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	2.24	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.00841	0.0045	mg/Kg wet	0.0113		74.2	70-130	0.270	20	V-05
1,2-Dibromoethane (EDB)	0.0123	0.00057	mg/Kg wet	0.0113		109	70-130	6.66	20	
Dibromomethane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	3.91	20	
1,2-Dichlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	0.691	20	
1,3-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	1.92	20	
1,4-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		102	70-130	1.59	20	
Dichlorodifluoromethane (Freon 12)	0.0122	0.0023	mg/Kg wet	0.0113		108	40-160	1.59	20	†
1,1-Dichloroethane	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	2.04	20	
1,2-Dichloroethane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	4.14	20	
1,1-Dichloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	5.29	20	
cis-1,2-Dichloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	2.49	20	
trans-1,2-Dichloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	0.181	20	
1,2-Dichloropropane	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	5.73	20	
1,3-Dichloropropane	0.0115	0.00057	mg/Kg wet	0.0113		102	70-130	5.14	20	
2,2-Dichloropropane	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130	2.79	20	
1,1-Dichloropropene	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130	0.477	20	
cis-1,3-Dichloropropene	0.0132	0.00057	mg/Kg wet	0.0113		117	70-130	5.45	20	
trans-1,3-Dichloropropene	0.0139	0.00057	mg/Kg wet	0.0113		123	70-130	3.56	20	
Diethyl Ether	0.0123	0.0023	mg/Kg wet	0.0113		109	70-130	3.85	20	
Diisopropyl Ether (DIPE)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130	3.85	20	
1,4-Dioxane	0.0919	0.057	mg/Kg wet	0.113		81.1	40-160	10.7	20	V-05, V-16 †
Ethylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	4.57	20	
Hexachlorobutadiene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	3.44	20	
2-Hexanone (MBK)	0.107	0.011	mg/Kg wet	0.113		94.0	40-160	15.4	20	V-05 †
Isopropylbenzene (Cumene)	0.0121	0.0011	mg/Kg wet	0.0113		106	70-130	2.76	20	
p-Isopropyltoluene (p-Cymene)	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130	1.47	20	
Methyl tert-Butyl Ether (MTBE)	0.0105	0.0011	mg/Kg wet	0.0113		92.5	70-130	4.13	20	
Methylene Chloride	0.0121	0.0057	mg/Kg wet	0.0113		106	70-130	6.20	20	
4-Methyl-2-pentanone (MIBK)	0.0908	0.011	mg/Kg wet	0.113		80.1	40-160	0.187	20	†
Naphthalene	0.00963	0.0023	mg/Kg wet	0.0113		85.0	70-130	6.16	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216161 - SW-846 5035

LCS Dup (B216161-BSD1)

Prepared: 11/01/18 Analyzed: 11/06/18

n-Propylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	3.19	20	
Styrene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	4.61	20	
1,1,1,2-Tetrachloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	1.65	20	
1,1,2,2-Tetrachloroethane	0.00969	0.00057	mg/Kg wet	0.0113		85.5	70-130	1.53	20	
Tetrachloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130	2.45	20	
Tetrahydrofuran	0.00912	0.0045	mg/Kg wet	0.0113		80.5	70-130	0.372	20	
Toluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	4.44	20	
1,2,3-Trichlorobenzene	0.0104	0.0045	mg/Kg wet	0.0113		91.5	70-130	7.97	20	
1,2,4-Trichlorobenzene	0.00992	0.0011	mg/Kg wet	0.0113		87.5	70-130	3.15	20	
1,1,1-Trichloroethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	5.46	20	
1,1,2-Trichloroethane	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	6.57	20	
Trichloroethylene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	2.76	20	
Trichlorofluoromethane (Freon 11)	0.0114	0.0023	mg/Kg wet	0.0113		101	70-130	3.85	20	
1,2,3-Trichloropropane	0.00944	0.0023	mg/Kg wet	0.0113		83.3	70-130	2.55	20	
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130	1.09	20	
1,3,5-Trimethylbenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	1.63	20	
Vinyl Chloride	0.0142	0.0023	mg/Kg wet	0.0113		125	70-130	0.400	20	
m+p Xylene	0.0240	0.0023	mg/Kg wet	0.0227		106	70-130	3.46	20	
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	2.77	20	
Surrogate: 1,2-Dichloroethane-d4	0.0255		mg/Kg wet	0.0283		89.9	70-130			
Surrogate: Toluene-d8	0.0288		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0294		mg/Kg wet	0.0283		104	70-130			

Batch B216165 - SW-846 5035

Blank (B216165-BLK1)

Prepared & Analyzed: 11/01/18

Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							R-05
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216165 - SW-846 5035										
Blank (B216165-BLK1)										
Prepared & Analyzed: 11/01/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							R-05
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/Kg wet	0.0500		96.9	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B216165 - SW-846 5035									
LCS (B216165-BS1)									
				Prepared & Analyzed: 11/01/18					
Acetone	0.256	0.10	mg/Kg wet	0.200		128	40-160		R-05 †
tert-Amyl Methyl Ether (TAME)	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130		
Benzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130		
Bromobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130		
Bromochloromethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		
Bromodichloromethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		
Bromoform	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130		
Bromomethane	0.0103	0.010	mg/Kg wet	0.0200		51.5	40-160		L-14, V-34 †
2-Butanone (MEK)	0.230	0.040	mg/Kg wet	0.200		115	40-160		R-05 †
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130		
sec-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130		
tert-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130		
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130		
Carbon Disulfide	0.0186	0.0060	mg/Kg wet	0.0200		93.2	70-130		
Carbon Tetrachloride	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130		
Chlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		
Chlorodibromomethane	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130		
Chloroethane	0.0171	0.010	mg/Kg wet	0.0200		85.4	70-130		
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.7	70-130		
Chloromethane	0.0193	0.010	mg/Kg wet	0.0200		96.4	40-160		†
2-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130		
4-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130		R-05
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130		
Dibromomethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130		
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		
1,3-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130		
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130		
Dichlorodifluoromethane (Freon 12)	0.0187	0.010	mg/Kg wet	0.0200		93.6	40-160		†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130		
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130		
1,1-Dichloroethylene	0.0182	0.0040	mg/Kg wet	0.0200		91.1	70-130		
cis-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130		
trans-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130		
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130		
1,3-Dichloropropane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130		
2,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130		
1,1-Dichloropropene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		
cis-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.5	70-130		
trans-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130		
Diethyl Ether	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130		
Diisopropyl Ether (DIPE)	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130		
1,4-Dioxane	0.215	0.10	mg/Kg wet	0.200		108	40-160		V-16, V-36 †
Ethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130		
Hexachlorobutadiene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130		
2-Hexanone (MBK)	0.230	0.020	mg/Kg wet	0.200		115	40-160		R-05 †
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130		
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130		
Methyl tert-Butyl Ether (MTBE)	0.0198	0.0040	mg/Kg wet	0.0200		99.2	70-130		
Methylene Chloride	0.0213	0.010	mg/Kg wet	0.0200		106	70-130		
4-Methyl-2-pentanone (MIBK)	0.222	0.020	mg/Kg wet	0.200		111	40-160		†
Naphthalene	0.0196	0.0040	mg/Kg wet	0.0200		98.2	70-130		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216165 - SW-846 5035

LCS (B216165-BS1)

Prepared & Analyzed: 11/01/18

n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			R-05
Tetrachloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
Tetrahydrofuran	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			V-16
Toluene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,2,3-Trichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,1-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
1,1,2-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0176	0.010	mg/Kg wet	0.0200		87.8	70-130			
1,2,3-Trichloropropane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Vinyl Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.3	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.5	70-130			

LCS Dup (B216165-BS1)

Prepared & Analyzed: 11/01/18

Acetone	0.575	0.10	mg/Kg wet	0.200		287 *	40-160	76.8 *	20	L-07A, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0187	0.0010	mg/Kg wet	0.0200		93.7	70-130	2.53	20	
Benzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130	0.446	20	
Bromobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130	15.5	20	
Bromochloromethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	6.54	20	
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	3.10	20	
Bromoform	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	18.0	20	
Bromomethane	0.0116	0.010	mg/Kg wet	0.0200		58.2	40-160	12.2	20	L-14, V-34 †
2-Butanone (MEK)	0.399	0.040	mg/Kg wet	0.200		200 *	40-160	54.0 *	20	L-07A, R-05 †
n-Butylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	11.1	20	
sec-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	12.0	20	
tert-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	14.9	20	
tert-Butyl Ethyl Ether (TBEE)	0.0185	0.0010	mg/Kg wet	0.0200		92.6	70-130	1.39	20	
Carbon Disulfide	0.0186	0.0060	mg/Kg wet	0.0200		93.2	70-130	0.00	20	
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	3.18	20	
Chlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	11.1	20	
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	8.22	20	
Chloroethane	0.0175	0.010	mg/Kg wet	0.0200		87.6	70-130	2.54	20	
Chloroform	0.0185	0.0040	mg/Kg wet	0.0200		92.5	70-130	1.29	20	
Chloromethane	0.0180	0.010	mg/Kg wet	0.0200		90.0	40-160	6.87	20	†
2-Chlorotoluene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130	12.3	20	
4-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	9.73	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	20.5 *	20	R-05
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	4.84	20	
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.499	20	
1,2-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	16.7	20	
1,3-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	11.8	20	
1,4-Dichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	17.6	20	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216165 - SW-846 5035										
LCS Dup (B216165-BSD1)										
Prepared & Analyzed: 11/01/18										
Dichlorodifluoromethane (Freon 12)	0.0204	0.010	mg/Kg wet	0.0200		102	40-160	8.69	20	†
1,1-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	3.99	20	
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	4.89	20	
1,1-Dichloroethylene	0.0181	0.0040	mg/Kg wet	0.0200		90.3	70-130	0.882	20	
cis-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	2.46	20	
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	2.37	20	
1,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	0.711	20	
1,3-Dichloropropane	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130	9.16	20	
2,2-Dichloropropane	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-130	3.87	20	
1,1-Dichloropropene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	1.65	20	
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130	1.13	20	
trans-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130	3.81	20	
Diethyl Ether	0.0186	0.010	mg/Kg wet	0.0200		93.1	70-130	3.17	20	
Diisopropyl Ether (DIPE)	0.0185	0.0010	mg/Kg wet	0.0200		92.7	70-130	2.56	20	
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		105	40-160	2.91	20	V-16, V-36 †
Ethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130	11.2	20	
Hexachlorobutadiene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130	13.3	20	
2-Hexanone (MBK)	0.320	0.020	mg/Kg wet	0.200		160	40-160	32.7 *	20	L-14, R-05 †
Isopropylbenzene (Cumene)	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130	13.4	20	
p-Isopropyltoluene (p-Cymene)	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130	10.0	20	
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.7	70-130	0.503	20	
Methylene Chloride	0.0204	0.010	mg/Kg wet	0.0200		102	70-130	4.13	20	
4-Methyl-2-pentanone (MIBK)	0.214	0.020	mg/Kg wet	0.200		107	40-160	3.70	20	†
Naphthalene	0.0183	0.0040	mg/Kg wet	0.0200		91.4	70-130	7.17	20	
n-Propylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	11.7	20	
Styrene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	13.4	20	
1,1,1,2-Tetrachloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	8.69	20	
1,1,2,2-Tetrachloroethane	0.0172	0.0010	mg/Kg wet	0.0200		86.0	70-130	20.1 *	20	R-05
Tetrachloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	1.91	20	
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		95.9	70-130	8.10	20	V-16
Toluene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130	4.26	20	
1,2,3-Trichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130	13.0	20	
1,2,4-Trichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	13.4	20	
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.54	20	
1,1,2-Trichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	13.2	20	
Trichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.63	20	
Trichlorofluoromethane (Freon 11)	0.0168	0.010	mg/Kg wet	0.0200		83.8	70-130	4.66	20	
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	13.5	20	
1,2,4-Trimethylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130	14.4	20	
1,3,5-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	10.8	20	
Vinyl Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.3	70-130	0.00	20	
m+p Xylene	0.0357	0.0040	mg/Kg wet	0.0400		89.3	70-130	5.08	20	
o-Xylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	8.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0479		mg/Kg wet	0.0500		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216271 - SW-846 3546										
Blank (B216271-BLK1)										
					Prepared: 11/02/18 Analyzed: 11/03/18					
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05, V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216271 - SW-846 3546

Blank (B216271-BLK1)

Prepared: 11/02/18 Analyzed: 11/03/18

Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.10		mg/Kg wet	6.67		76.5	30-130			
Surrogate: Phenol-d6	4.93		mg/Kg wet	6.67		74.0	30-130			
Surrogate: Nitrobenzene-d5	2.54		mg/Kg wet	3.33		76.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.97		mg/Kg wet	3.33		59.0	30-130			
Surrogate: 2,4,6-Tribromophenol	4.68		mg/Kg wet	6.67		70.2	30-130			
Surrogate: p-Terphenyl-d14	2.76		mg/Kg wet	3.33		82.9	30-130			

LCS (B216271-BS1)

Prepared: 11/02/18 Analyzed: 11/03/18

Acenaphthene	0.814	0.17	mg/Kg wet	1.67		48.9	40-140			
Acenaphthylene	0.875	0.17	mg/Kg wet	1.67		52.5	40-140			
Acetophenone	0.873	0.34	mg/Kg wet	1.67		52.4	40-140			
Aniline	0.625	0.34	mg/Kg wet	1.67		37.5 *	40-140			V-05, L-07, V-34
Anthracene	0.815	0.17	mg/Kg wet	1.67		48.9	40-140			
Benzo(a)anthracene	0.913	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)pyrene	0.899	0.17	mg/Kg wet	1.67		53.9	40-140			
Benzo(b)fluoranthene	0.834	0.17	mg/Kg wet	1.67		50.0	40-140			
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140			
Benzo(k)fluoranthene	0.846	0.17	mg/Kg wet	1.67		50.8	40-140			
Bis(2-chloroethoxy)methane	1.00	0.34	mg/Kg wet	1.67		60.3	40-140			
Bis(2-chloroethyl)ether	0.973	0.34	mg/Kg wet	1.67		58.4	40-140			
Bis(2-chloroisopropyl)ether	1.05	0.34	mg/Kg wet	1.67		62.9	40-140			
Bis(2-Ethylhexyl)phthalate	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
4-Bromophenylphenylether	0.805	0.34	mg/Kg wet	1.67		48.3	40-140			
Butylbenzylphthalate	1.05	0.34	mg/Kg wet	1.67		63.3	40-140			
4-Chloroaniline	0.631	0.66	mg/Kg wet	1.67		37.9	15-140			V-34 †
2-Chloronaphthalene	0.766	0.34	mg/Kg wet	1.67		46.0	40-140			
2-Chlorophenol	0.881	0.34	mg/Kg wet	1.67		52.8	30-130			
Chrysene	0.842	0.17	mg/Kg wet	1.67		50.5	40-140			
Dibenz(a,h)anthracene	0.938	0.17	mg/Kg wet	1.67		56.3	40-140			
Dibenzofuran	0.906	0.34	mg/Kg wet	1.67		54.4	40-140			
Di-n-butylphthalate	0.870	0.34	mg/Kg wet	1.67		52.2	40-140			
1,2-Dichlorobenzene	0.866	0.34	mg/Kg wet	1.67		52.0	40-140			
1,3-Dichlorobenzene	0.842	0.34	mg/Kg wet	1.67		50.5	40-140			
1,4-Dichlorobenzene	0.858	0.34	mg/Kg wet	1.67		51.5	40-140			
3,3-Dichlorobenzidine	0.701	0.17	mg/Kg wet	1.67		42.0	40-140			
2,4-Dichlorophenol	0.783	0.34	mg/Kg wet	1.67		47.0	30-130			
Diethylphthalate	0.966	0.34	mg/Kg wet	1.67		58.0	40-140			
2,4-Dimethylphenol	0.792	0.34	mg/Kg wet	1.67		47.5	30-130			
Dimethylphthalate	0.952	0.34	mg/Kg wet	1.67		57.1	40-140			
2,4-Dinitrophenol	0.606	0.66	mg/Kg wet	1.67		36.3	15-140			V-06 †
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
2,6-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			V-06
Di-n-octylphthalate	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	0.880	0.34	mg/Kg wet	1.67		52.8	40-140			
Fluoranthene	0.784	0.17	mg/Kg wet	1.67		47.1	40-140			
Fluorene	0.878	0.17	mg/Kg wet	1.67		52.7	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216271 - SW-846 3546

LCS (B216271-BS1)

Prepared: 11/02/18 Analyzed: 11/03/18

Hexachlorobenzene	0.784	0.34	mg/Kg wet	1.67		47.1	40-140			
Hexachlorobutadiene	0.823	0.34	mg/Kg wet	1.67		49.4	40-140			
Hexachloroethane	0.927	0.34	mg/Kg wet	1.67		55.6	40-140			
Indeno(1,2,3-cd)pyrene	0.989	0.17	mg/Kg wet	1.67		59.4	40-140			
Isophorone	0.921	0.34	mg/Kg wet	1.67		55.3	40-140			
2-Methylnaphthalene	0.888	0.17	mg/Kg wet	1.67		53.3	40-140			
2-Methylphenol	0.822	0.34	mg/Kg wet	1.67		49.3	30-130			
3/4-Methylphenol	0.844	0.34	mg/Kg wet	1.67		50.6	30-130			
Naphthalene	0.842	0.17	mg/Kg wet	1.67		50.5	40-140			
Nitrobenzene	0.920	0.34	mg/Kg wet	1.67		55.2	40-140			
2-Nitrophenol	0.981	0.34	mg/Kg wet	1.67		58.8	30-130			
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.7	15-140			†
Pentachlorophenol	0.620	0.34	mg/Kg wet	1.67		37.2	30-130			
Phenanthrene	0.815	0.17	mg/Kg wet	1.67		48.9	40-140			
Phenol	0.879	0.34	mg/Kg wet	1.67		52.7	15-140			†
Pyrene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140			
Pyridine	0.740	0.34	mg/Kg wet	1.67		44.4	30-140			†
1,2,4-Trichlorobenzene	0.849	0.34	mg/Kg wet	1.67		51.0	40-140			
2,4,5-Trichlorophenol	0.925	0.34	mg/Kg wet	1.67		55.5	30-130			
2,4,6-Trichlorophenol	0.921	0.34	mg/Kg wet	1.67		55.3	30-130			
Surrogate: 2-Fluorophenol	3.93		mg/Kg wet	6.67		58.9	30-130			
Surrogate: Phenol-d6	3.84		mg/Kg wet	6.67		57.6	30-130			
Surrogate: Nitrobenzene-d5	2.06		mg/Kg wet	3.33		61.7	30-130			
Surrogate: 2-Fluorobiphenyl	1.58		mg/Kg wet	3.33		47.5	30-130			
Surrogate: 2,4,6-Tribromophenol	3.97		mg/Kg wet	6.67		59.5	30-130			
Surrogate: p-Terphenyl-d14	2.00		mg/Kg wet	3.33		59.9	30-130			

LCS Dup (B216271-BS1)

Prepared: 11/02/18 Analyzed: 11/03/18

Acenaphthene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140	11.8	30	
Acenaphthylene	0.971	0.17	mg/Kg wet	1.67		58.2	40-140	10.3	30	
Acetophenone	0.970	0.34	mg/Kg wet	1.67		58.2	40-140	10.6	30	
Aniline	0.715	0.34	mg/Kg wet	1.67		42.9	40-140	13.4	30	V-05, V-34
Anthracene	0.923	0.17	mg/Kg wet	1.67		55.4	40-140	12.4	30	
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	12.2	30	
Benzo(a)pyrene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	13.5	30	
Benzo(b)fluoranthene	0.956	0.17	mg/Kg wet	1.67		57.4	40-140	13.7	30	
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	11.0	30	
Benzo(k)fluoranthene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140	13.5	30	
Bis(2-chloroethoxy)methane	1.09	0.34	mg/Kg wet	1.67		65.4	40-140	8.18	30	
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	8.49	30	
Bis(2-chloroisopropyl)ether	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	9.14	30	
Bis(2-Ethylhexyl)phthalate	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	12.1	30	
4-Bromophenylphenylether	0.929	0.34	mg/Kg wet	1.67		55.8	40-140	14.4	30	
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	14.0	30	
4-Chloroaniline	0.664	0.66	mg/Kg wet	1.67		39.9	15-140	5.15	30	V-34 †
2-Chloronaphthalene	0.860	0.34	mg/Kg wet	1.67		51.6	40-140	11.5	30	
2-Chlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0	30-130	9.38	30	
Chrysene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140	12.9	30	
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	11.0	30	
Dibenzofuran	1.02	0.34	mg/Kg wet	1.67		60.9	40-140	11.4	30	
Di-n-butylphthalate	0.979	0.34	mg/Kg wet	1.67		58.7	40-140	11.8	30	
1,2-Dichlorobenzene	0.928	0.34	mg/Kg wet	1.67		55.7	40-140	6.87	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216271 - SW-846 3546										
LCS Dup (B216271-BSD1)										
					Prepared: 11/02/18 Analyzed: 11/03/18					
1,3-Dichlorobenzene	0.906	0.34	mg/Kg wet	1.67		54.4	40-140	7.36	30	
1,4-Dichlorobenzene	0.912	0.34	mg/Kg wet	1.67		54.7	40-140	6.14	30	
3,3-Dichlorobenzidine	0.799	0.17	mg/Kg wet	1.67		47.9	40-140	13.1	30	
2,4-Dichlorophenol	0.872	0.34	mg/Kg wet	1.67		52.3	30-130	10.8	30	
Diethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.9	40-140	9.69	30	
2,4-Dimethylphenol	0.870	0.34	mg/Kg wet	1.67		52.2	30-130	9.39	30	
Dimethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.4	40-140	10.5	30	
2,4-Dinitrophenol	0.705	0.66	mg/Kg wet	1.67		42.3	15-140	15.1	30	V-06 †
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	7.95	30	
2,6-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	10.9	30	V-06
Di-n-octylphthalate	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	13.2	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.01	0.34	mg/Kg wet	1.67		60.6	40-140	13.7	30	
Fluoranthene	0.875	0.17	mg/Kg wet	1.67		52.5	40-140	11.0	30	
Fluorene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140	12.2	30	
Hexachlorobenzene	0.907	0.34	mg/Kg wet	1.67		54.4	40-140	14.5	30	
Hexachlorobutadiene	0.892	0.34	mg/Kg wet	1.67		53.5	40-140	8.08	30	
Hexachloroethane	0.983	0.34	mg/Kg wet	1.67		59.0	40-140	5.90	30	
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	11.2	30	
Isophorone	0.996	0.34	mg/Kg wet	1.67		59.8	40-140	7.79	30	
2-Methylnaphthalene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140	10.3	30	
2-Methylphenol	0.912	0.34	mg/Kg wet	1.67		54.7	30-130	10.4	30	
3/4-Methylphenol	0.936	0.34	mg/Kg wet	1.67		56.2	30-130	10.4	30	
Naphthalene	0.916	0.17	mg/Kg wet	1.67		55.0	40-140	8.42	30	
Nitrobenzene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140	8.50	30	
2-Nitrophenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130	10.3	30	
4-Nitrophenol	1.15	0.66	mg/Kg wet	1.67		69.0	15-140	6.43	30	†
Pentachlorophenol	0.752	0.34	mg/Kg wet	1.67		45.1	30-130	19.2	30	
Phenanthrene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140	12.8	30	
Phenol	0.986	0.34	mg/Kg wet	1.67		59.1	15-140	11.5	30	†
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	14.7	30	
Pyridine	0.771	0.34	mg/Kg wet	1.67		46.3	30-140	4.06	30	†
1,2,4-Trichlorobenzene	0.915	0.34	mg/Kg wet	1.67		54.9	40-140	7.48	30	
2,4,5-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.7	30-130	13.7	30	
2,4,6-Trichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.1	30-130	11.7	30	
Surrogate: 2-Fluorophenol	4.30		mg/Kg wet	6.67		64.5	30-130			
Surrogate: Phenol-d6	4.24		mg/Kg wet	6.67		63.5	30-130			
Surrogate: Nitrobenzene-d5	2.17		mg/Kg wet	3.33		65.1	30-130			
Surrogate: 2-Fluorobiphenyl	1.79		mg/Kg wet	3.33		53.6	30-130			
Surrogate: 2,4,6-Tribromophenol	4.48		mg/Kg wet	6.67		67.2	30-130			
Surrogate: p-Terphenyl-d14	2.28		mg/Kg wet	3.33		68.4	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216154 - SW-846 3546

Blank (B216154-BLK1)

Prepared: 11/01/18 Analyzed: 11/02/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0020	mg/Kg wet							
Aldrin [2C]	ND	0.0020	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0010	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDE	ND	0.0010	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDT	ND	0.0010	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0010	mg/Kg wet							
Dieldrin	ND	0.0020	mg/Kg wet							
Dieldrin [2C]	ND	0.0020	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.121		mg/Kg wet	0.200		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.118		mg/Kg wet	0.200		58.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216154 - SW-846 3546										
LCS (B216154-BS1)										
					Prepared: 11/01/18 Analyzed: 11/02/18					
alpha-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.5	40-140			
alpha-Chlordane [2C]	0.078	0.0050	mg/Kg wet	0.100		77.7	40-140			
gamma-Chlordane	0.079	0.0050	mg/Kg wet	0.100		79.5	40-140			
gamma-Chlordane [2C]	0.076	0.0050	mg/Kg wet	0.100		75.6	40-140			
Alachlor	0.073	0.020	mg/Kg wet	0.100		73.1	40-140			
Alachlor [2C]	0.070	0.020	mg/Kg wet	0.100		69.8	40-140			
Aldrin	0.072	0.0020	mg/Kg wet	0.100		72.3	40-140			
Aldrin [2C]	0.069	0.0020	mg/Kg wet	0.100		68.8	40-140			
alpha-BHC	0.046	0.0050	mg/Kg wet	0.100		46.5	40-140			
alpha-BHC [2C]	0.041	0.0050	mg/Kg wet	0.100		41.0	40-140			
beta-BHC	0.055	0.0050	mg/Kg wet	0.100		55.2	40-140			
beta-BHC [2C]	0.054	0.0050	mg/Kg wet	0.100		53.9	40-140			
delta-BHC	0.052	0.0050	mg/Kg wet	0.100		52.0	40-140			
delta-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		47.1	40-140			
gamma-BHC (Lindane)	0.052	0.0020	mg/Kg wet	0.100		52.4	40-140			
gamma-BHC (Lindane) [2C]	0.049	0.0020	mg/Kg wet	0.100		49.4	40-140			
4,4'-DDD	0.093	0.0010	mg/Kg wet	0.100		92.7	40-140			
4,4'-DDD [2C]	0.087	0.0010	mg/Kg wet	0.100		87.0	40-140			
4,4'-DDE	0.093	0.0010	mg/Kg wet	0.100		93.1	40-140			
4,4'-DDE [2C]	0.085	0.0010	mg/Kg wet	0.100		85.2	40-140			
4,4'-DDT	0.098	0.0010	mg/Kg wet	0.100		98.3	40-140			
4,4'-DDT [2C]	0.088	0.0010	mg/Kg wet	0.100		87.6	40-140			
Dieldrin	0.085	0.0020	mg/Kg wet	0.100		85.5	40-140			
Dieldrin [2C]	0.076	0.0020	mg/Kg wet	0.100		75.6	40-140			
Endosulfan I	0.078	0.0050	mg/Kg wet	0.100		78.1	40-140			
Endosulfan I [2C]	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140			
Endosulfan II	0.084	0.0080	mg/Kg wet	0.100		84.1	40-140			
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.9	40-140			
Endosulfan Sulfate	0.068	0.0080	mg/Kg wet	0.100		68.0	40-140			
Endosulfan Sulfate [2C]	0.066	0.0080	mg/Kg wet	0.100		65.8	40-140			
Endrin	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140			
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		80.9	40-140			
Endrin Aldehyde	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140			
Endrin Aldehyde [2C]	0.088	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140			
Endrin Ketone [2C]	0.082	0.0080	mg/Kg wet	0.100		82.2	40-140			
Heptachlor	0.064	0.0050	mg/Kg wet	0.100		64.4	40-140			
Heptachlor [2C]	0.063	0.0050	mg/Kg wet	0.100		62.6	40-140			
Heptachlor Epoxide	0.078	0.0050	mg/Kg wet	0.100		78.1	40-140			
Heptachlor Epoxide [2C]	0.068	0.0050	mg/Kg wet	0.100		68.0	40-140			
Hexachlorobenzene	0.059	0.0060	mg/Kg wet	0.100		58.8	40-140			
Hexachlorobenzene [2C]	0.054	0.0060	mg/Kg wet	0.100		53.9	40-140			
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		99.7	40-140			
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		102	40-140			
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.117		mg/Kg wet	0.200		58.3	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216154 - SW-846 3546										
LCS Dup (B216154-BSD1)										
					Prepared: 11/01/18 Analyzed: 11/02/18					
alpha-Chlordane	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140	7.89	30	
alpha-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	7.75	30	
gamma-Chlordane	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	9.36	30	
gamma-Chlordane [2C]	0.083	0.0050	mg/Kg wet	0.100		83.0	40-140	9.35	30	
Alachlor	0.079	0.020	mg/Kg wet	0.100		79.3	40-140	8.21	30	
Alachlor [2C]	0.076	0.020	mg/Kg wet	0.100		76.3	40-140	8.93	30	
Aldrin	0.079	0.0020	mg/Kg wet	0.100		78.6	40-140	8.41	30	
Aldrin [2C]	0.075	0.0020	mg/Kg wet	0.100		74.5	40-140	8.07	30	
alpha-BHC	0.054	0.0050	mg/Kg wet	0.100		53.6	40-140	14.4	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		47.1	40-140	13.7	30	
beta-BHC	0.063	0.0050	mg/Kg wet	0.100		63.2	40-140	13.5	30	
beta-BHC [2C]	0.062	0.0050	mg/Kg wet	0.100		61.7	40-140	13.5	30	
delta-BHC	0.063	0.0050	mg/Kg wet	0.100		62.9	40-140	19.0	30	
delta-BHC [2C]	0.059	0.0050	mg/Kg wet	0.100		58.7	40-140	21.9	30	
gamma-BHC (Lindane)	0.060	0.0020	mg/Kg wet	0.100		60.0	40-140	13.4	30	
gamma-BHC (Lindane) [2C]	0.057	0.0020	mg/Kg wet	0.100		56.5	40-140	13.5	30	
4,4'-DDD	0.099	0.0010	mg/Kg wet	0.100		99.3	40-140	6.94	30	
4,4'-DDD [2C]	0.093	0.0010	mg/Kg wet	0.100		93.3	40-140	6.97	30	
4,4'-DDE	0.10	0.0010	mg/Kg wet	0.100		100	40-140	7.26	30	
4,4'-DDE [2C]	0.091	0.0010	mg/Kg wet	0.100		90.9	40-140	6.53	30	
4,4'-DDT	0.10	0.0010	mg/Kg wet	0.100		105	40-140	6.30	30	
4,4'-DDT [2C]	0.094	0.0010	mg/Kg wet	0.100		94.0	40-140	7.04	30	
Dieldrin	0.092	0.0020	mg/Kg wet	0.100		91.6	40-140	6.89	30	
Dieldrin [2C]	0.081	0.0020	mg/Kg wet	0.100		81.0	40-140	6.89	30	
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140	6.20	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.5	40-140	6.60	30	
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.2	40-140	7.01	30	
Endosulfan II [2C]	0.087	0.0080	mg/Kg wet	0.100		86.5	40-140	6.70	30	
Endosulfan Sulfate	0.077	0.0080	mg/Kg wet	0.100		76.9	40-140	12.4	30	
Endosulfan Sulfate [2C]	0.073	0.0080	mg/Kg wet	0.100		73.5	40-140	11.0	30	
Endrin	0.093	0.0080	mg/Kg wet	0.100		92.8	40-140	6.73	30	
Endrin [2C]	0.087	0.0080	mg/Kg wet	0.100		86.8	40-140	7.08	30	
Endrin Aldehyde	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140	5.35	30	
Endrin Aldehyde [2C]	0.083	0.0080	mg/Kg wet	0.100		83.3	40-140	4.89	30	
Endrin Ketone	0.090	0.0080	mg/Kg wet	0.100		89.9	40-140	4.79	30	
Endrin Ketone [2C]	0.086	0.0080	mg/Kg wet	0.100		86.3	40-140	4.81	30	
Heptachlor	0.071	0.0050	mg/Kg wet	0.100		70.7	40-140	9.35	30	
Heptachlor [2C]	0.069	0.0050	mg/Kg wet	0.100		68.8	40-140	9.35	30	
Heptachlor Epoxide	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140	7.44	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140	9.99	30	
Hexachlorobenzene	0.067	0.0060	mg/Kg wet	0.100		67.1	40-140	13.2	30	
Hexachlorobenzene [2C]	0.062	0.0060	mg/Kg wet	0.100		61.9	40-140	13.8	30	
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		104	40-140	4.38	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		104	40-140	1.39	30	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216139 - SW-846 3546										
Blank (B216139-BLK1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.5	30-150			
LCS (B216139-BS1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			V-06
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.8	40-140			V-06
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.6	30-150			
LCS Dup (B216139-BSD1)										
Prepared: 11/01/18 Analyzed: 11/02/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140	7.93	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.4	40-140	9.84	30	V-06
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		87.5	40-140	9.66	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		96.4	40-140	14.0	30	V-06
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.146		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216140 - SW-846 8151

Blank (B216140-BLK1)

Prepared: 11/01/18 Analyzed: 11/02/18

2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	67.2		µg/kg wet	95.2		70.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	68.1		µg/kg wet	95.2		71.5	30-150			

LCS (B216140-BS1)

Prepared: 11/01/18 Analyzed: 11/02/18

2,4-D	105	25	µg/kg wet	125		84.2	40-140			
2,4-D [2C]	109	25	µg/kg wet	125		87.5	40-140			
2,4-DB	108	25	µg/kg wet	125		86.7	40-140			
2,4-DB [2C]	118	25	µg/kg wet	125		94.3	40-140			
2,4,5-TP (Silvex)	10.9	2.5	µg/kg wet	12.5		87.0	40-140			
2,4,5-TP (Silvex) [2C]	11.4	2.5	µg/kg wet	12.5		91.3	40-140			
2,4,5-T	10.6	2.5	µg/kg wet	12.5		84.6	40-140			
2,4,5-T [2C]	11.6	2.5	µg/kg wet	12.5		93.1	40-140			
Dalapon	196	62	µg/kg wet	312		62.9	40-140			
Dalapon [2C]	197	62	µg/kg wet	312		63.2	40-140			
Dicamba	10.9	2.5	µg/kg wet	12.5		87.5	40-140			
Dicamba [2C]	11.1	2.5	µg/kg wet	12.5		88.4	40-140			
Dichloroprop	118	25	µg/kg wet	125		94.1	40-140			
Dichloroprop [2C]	116	25	µg/kg wet	125		93.0	40-140			
Dinoseb	19.2	12	µg/kg wet	62.5		30.7	0-42.4			
Dinoseb [2C]	21.8	12	µg/kg wet	62.5		34.8	0-41.1			
MCPA	10300	2500	µg/kg wet	12500		82.7	40-140			
MCPA [2C]	9710	2500	µg/kg wet	12500		77.7	40-140			
MCPP	13500	2500	µg/kg wet	12500		108	40-140			
MCPP [2C]	10400	2500	µg/kg wet	12500		83.4	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	81.5		µg/kg wet	100		81.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	84.8		µg/kg wet	100		84.8	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216140 - SW-846 8151										
LCS Dup (B216140-BSD1)										
					Prepared: 11/01/18 Analyzed: 11/02/18					
2,4-D	110	25	µg/kg wet	125		87.8	40-140	4.18	30	
2,4-D [2C]	120	25	µg/kg wet	125		95.9	40-140	9.13	30	
2,4-DB	114	25	µg/kg wet	125		91.6	40-140	5.47	30	
2,4-DB [2C]	123	25	µg/kg wet	125		98.3	40-140	4.10	30	
2,4,5-TP (Silvex)	11.3	2.5	µg/kg wet	12.5		90.5	40-140	3.93	30	
2,4,5-TP (Silvex) [2C]	12.0	2.5	µg/kg wet	12.5		96.3	40-140	5.42	30	
2,4,5-T	10.9	2.5	µg/kg wet	12.5		87.2	40-140	3.10	30	
2,4,5-T [2C]	11.3	2.5	µg/kg wet	12.5		90.0	40-140	3.34	30	
Dalapon	203	62	µg/kg wet	312		64.9	40-140	3.10	30	
Dalapon [2C]	205	62	µg/kg wet	312		65.6	40-140	3.74	30	
Dicamba	11.4	2.5	µg/kg wet	12.5		91.0	40-140	3.96	30	
Dicamba [2C]	11.6	2.5	µg/kg wet	12.5		93.1	40-140	5.08	30	
Dichloroprop	129	25	µg/kg wet	125		103	40-140	9.04	30	
Dichloroprop [2C]	120	25	µg/kg wet	125		96.0	40-140	3.21	30	
Dinoseb	22.7	12	µg/kg wet	62.5		36.4	0-42.4	16.8	30	
Dinoseb [2C]	25.4	12	µg/kg wet	62.5		40.7	0-41.1	15.6	30	
MCPA	10900	2500	µg/kg wet	12500		87.2	40-140	5.40	30	
MCPA [2C]	10200	2500	µg/kg wet	12500		81.3	40-140	4.52	30	
MCPP	14400	2500	µg/kg wet	12500		115	40-140	6.47	30	
MCPP [2C]	10700	2500	µg/kg wet	12500		85.4	40-140	2.37	30	
Surrogate: 2,4-Dichlorophenylacetic acid	85.2		µg/kg wet	100		85.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	87.8		µg/kg wet	100		87.8	30-150			
Matrix Spike (B216140-MS1)										
			Source: 18J1553-06		Prepared: 11/01/18 Analyzed: 11/03/18					
2,4-D	112	27	µg/kg dry	137	ND	81.9	30-150			
2,4-D [2C]	121	27	µg/kg dry	137	ND	88.3	30-150			
2,4-DB	118	27	µg/kg dry	137	ND	86.2	30-150			
2,4-DB [2C]	137	27	µg/kg dry	137	ND	100	30-150			
2,4,5-TP (Silvex)	11.5	2.7	µg/kg dry	13.7	ND	84.3	30-150			
2,4,5-TP (Silvex) [2C]	12.2	2.7	µg/kg dry	13.7	ND	89.5	30-150			
2,4,5-T	10.9	2.7	µg/kg dry	13.7	ND	79.8	30-150			
2,4,5-T [2C]	12.0	2.7	µg/kg dry	13.7	ND	87.7	30-150			
Dalapon	223	68	µg/kg dry	342	ND	65.1	30-150			
Dalapon [2C]	227	68	µg/kg dry	342	ND	66.4	30-150			
Dicamba	11.5	2.7	µg/kg dry	13.7	ND	84.0	30-150			
Dicamba [2C]	12.0	2.7	µg/kg dry	13.7	ND	87.9	30-150			
Dichloroprop	134	27	µg/kg dry	137	ND	97.6	30-150			
Dichloroprop [2C]	124	27	µg/kg dry	137	ND	90.5	30-150			
Dinoseb	23.4	14	µg/kg dry	68.4	ND	34.2	10-150			
Dinoseb [2C]	26.4	14	µg/kg dry	68.4	ND	38.6	10-150			
MCPA	11200	2700	µg/kg dry	13700	ND	81.7	30-150			
MCPA [2C]	10200	2700	µg/kg dry	13700	ND	74.2	30-150			
MCPP	15300	2700	µg/kg dry	13700	ND	112	30-150			
MCPP [2C]	10900	2700	µg/kg dry	13700	ND	79.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	87.9		µg/kg dry	109		80.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	94.5		µg/kg dry	109		86.3	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216140 - SW-846 8151										
Matrix Spike Dup (B216140-MSD1)		Source: 18J1553-06		Prepared: 11/01/18 Analyzed: 11/03/18						
2,4-D	104	27	µg/kg dry	137	ND	75.8	30-150	7.75	30	
2,4-D [2C]	110	27	µg/kg dry	137	ND	80.5	30-150	9.17	30	
2,4-DB	111	27	µg/kg dry	137	ND	80.8	30-150	6.49	30	
2,4-DB [2C]	130	27	µg/kg dry	137	ND	95.0	30-150	5.46	30	
2,4,5-TP (Silvex)	10.5	2.7	µg/kg dry	13.7	ND	76.4	30-150	9.81	30	
2,4,5-TP (Silvex) [2C]	11.1	2.7	µg/kg dry	13.7	ND	81.2	30-150	9.72	30	
2,4,5-T	10.0	2.7	µg/kg dry	13.7	ND	73.1	30-150	8.82	30	
2,4,5-T [2C]	11.3	2.7	µg/kg dry	13.7	ND	82.3	30-150	6.33	30	
Dalapon	195	68	µg/kg dry	342	ND	56.9	30-150	13.5	30	
Dalapon [2C]	197	68	µg/kg dry	342	ND	57.7	30-150	14.0	30	
Dicamba	10.7	2.7	µg/kg dry	13.7	ND	78.4	30-150	7.01	30	
Dicamba [2C]	10.8	2.7	µg/kg dry	13.7	ND	79.1	30-150	10.5	30	
Dichloroprop	115	27	µg/kg dry	137	ND	84.1	30-150	14.8	30	
Dichloroprop [2C]	114	27	µg/kg dry	137	ND	83.1	30-150	8.50	30	
Dinoseb	24.8	14	µg/kg dry	68.4	ND	36.2	10-150	5.82	30	
Dinoseb [2C]	28.0	14	µg/kg dry	68.4	ND	40.9	10-150	5.90	30	
MCPA	10400	2700	µg/kg dry	13700	ND	75.9	30-150	7.36	30	
MCPA [2C]	9530	2700	µg/kg dry	13700	ND	69.7	30-150	6.32	30	
MCPP	13600	2700	µg/kg dry	13700	ND	99.4	30-150	11.7	30	
MCPP [2C]	10100	2700	µg/kg dry	13700	ND	73.5	30-150	8.17	30	
Surrogate: 2,4-Dichlorophenylacetic acid	84.0		µg/kg dry	109		76.8	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	89.1		µg/kg dry	109		81.4	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216247 - SW-846 3546										
Blank (B216247-BLK1)										
					Prepared: 11/02/18 Analyzed: 11/04/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.86		mg/Kg wet	3.33		85.7	40-140			
LCS (B216247-BS1)										
					Prepared: 11/02/18 Analyzed: 11/04/18					
TPH (C9-C36)	29.5	8.3	mg/Kg wet	33.3		88.5	40-140			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.3	40-140			
LCS Dup (B216247-BSD1)										
					Prepared: 11/02/18 Analyzed: 11/04/18					
TPH (C9-C36)	29.9	8.3	mg/Kg wet	33.3		89.6	40-140	1.21	30	
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.0	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216433 - SW-846 3050B

Blank (B216433-BLK1)

Prepared: 11/05/18 Analyzed: 11/06/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B216433-BS1)

Prepared: 11/05/18 Analyzed: 11/06/18

Antimony	63.6	4.9	mg/Kg wet	75.5		84.2	3.8-196			
Arsenic	148	4.9	mg/Kg wet	161		91.7	83.2-116.8			
Barium	253	4.9	mg/Kg wet	260		97.3	82.7-117.3			
Beryllium	94.3	0.49	mg/Kg wet	97.6		96.6	83.4-116.8			
Cadmium	192	0.49	mg/Kg wet	211		91.1	83.4-116.6			
Chromium	127	0.97	mg/Kg wet	136		93.3	82.4-117.6			
Lead	100	1.5	mg/Kg wet	111		90.1	83-117.1			
Nickel	88.7	0.97	mg/Kg wet	91.9		96.5	82.9-117.5			
Selenium	169	9.7	mg/Kg wet	191		88.4	79.6-120.9			
Silver	44.4	0.97	mg/Kg wet	43.3		103	79.9-119.9			
Thallium	154	4.9	mg/Kg wet	156		98.4	81.4-119.2			
Vanadium	47.1	1.9	mg/Kg wet	56.7		83.0	79-121.2			
Zinc	183	1.9	mg/Kg wet	199		91.8	81.4-119.1			

LCS Dup (B216433-BSD1)

Prepared: 11/05/18 Analyzed: 11/06/18

Antimony	64.7	4.9	mg/Kg wet	75.5		85.6	3.8-196	1.70	30	
Arsenic	149	4.9	mg/Kg wet	161		92.7	83.2-116.8	1.12	30	
Barium	252	4.9	mg/Kg wet	260		97.1	82.7-117.3	0.200	30	
Beryllium	92.7	0.49	mg/Kg wet	97.6		95.0	83.4-116.8	1.62	30	
Cadmium	191	0.49	mg/Kg wet	211		90.4	83.4-116.6	0.868	30	
Chromium	127	0.98	mg/Kg wet	136		93.2	82.4-117.6	0.134	30	
Lead	102	1.5	mg/Kg wet	111		91.5	83-117.1	1.51	30	
Nickel	88.8	0.98	mg/Kg wet	91.9		96.7	82.9-117.5	0.121	30	
Selenium	171	9.8	mg/Kg wet	191		89.3	79.6-120.9	1.03	30	
Silver	43.8	0.98	mg/Kg wet	43.3		101	79.9-119.9	1.45	30	
Thallium	151	4.9	mg/Kg wet	156		96.5	81.4-119.2	1.97	30	
Vanadium	48.0	2.0	mg/Kg wet	56.7		84.7	79-121.2	2.06	30	
Zinc	184	2.0	mg/Kg wet	199		92.5	81.4-119.1	0.783	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216433 - SW-846 3050B

Duplicate (B216433-DUP1)

Source: 18J1553-04

Prepared: 11/05/18 Analyzed: 11/06/18

Antimony	ND	1.9	mg/Kg dry		ND			NC	35	
Arsenic	4.14	1.9	mg/Kg dry		3.90			6.09	35	
Barium	23.2	1.9	mg/Kg dry		25.8			10.8	35	
Beryllium	0.418	0.19	mg/Kg dry		0.427			2.08	35	
Cadmium	ND	0.19	mg/Kg dry		ND			NC	35	
Chromium	11.3	0.39	mg/Kg dry		12.3			8.31	35	
Lead	15.3	0.58	mg/Kg dry		13.3			13.6	35	
Nickel	7.24	0.39	mg/Kg dry		8.07			11.0	35	
Selenium	ND	3.9	mg/Kg dry		ND			NC	35	
Silver	ND	0.39	mg/Kg dry		ND			NC	35	
Thallium	ND	1.9	mg/Kg dry		ND			NC	35	
Vanadium	14.1	0.78	mg/Kg dry		15.0			5.91	35	
Zinc	14.2	0.78	mg/Kg dry		16.0			12.3	35	

MRL Check (B216433-MRL1)

Prepared: 11/05/18 Analyzed: 11/06/18

Lead	0.526	0.50	mg/Kg wet	0.499		105		80-120		
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Matrix Spike (B216433-MS1)

Source: 18J1553-04

Prepared: 11/05/18 Analyzed: 11/06/18

Antimony	10.3	2.0	mg/Kg dry	19.5	ND	52.7	*	75-125		MS-07
Arsenic	22.7	2.0	mg/Kg dry	19.5	3.90	96.4		75-125		
Barium	45.2	2.0	mg/Kg dry	19.5	25.8	98.8		75-125		
Beryllium	20.7	0.20	mg/Kg dry	19.5	0.427	104		75-125		
Cadmium	19.7	0.20	mg/Kg dry	19.5	0.153	100		75-125		
Chromium	31.5	0.39	mg/Kg dry	19.5	12.3	98.0		75-125		
Lead	33.4	0.59	mg/Kg dry	19.5	13.3	103		75-125		
Nickel	27.4	0.39	mg/Kg dry	19.5	8.07	98.7		75-125		
Selenium	18.1	3.9	mg/Kg dry	19.5	ND	92.8		75-125		
Silver	21.4	0.39	mg/Kg dry	19.5	ND	109		75-125		
Thallium	24.8	2.0	mg/Kg dry	19.5	ND	127	*	75-125		MS-14
Vanadium	34.3	0.78	mg/Kg dry	19.5	15.0	98.7		75-125		
Zinc	54.4	0.78	mg/Kg dry	39.1	16.0	98.2		75-125		

Batch B216478 - SW-846 7471

Blank (B216478-BLK1)

Prepared & Analyzed: 11/06/18

Mercury	ND	0.025	mg/Kg wet							
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LCS (B216478-BS1)

Prepared & Analyzed: 11/06/18

Mercury	11.0	1.9	mg/Kg wet	11.5		95.4		71.6-127.8		
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LCS Dup (B216478-BSD1)

Prepared & Analyzed: 11/06/18

Mercury	11.1	1.9	mg/Kg wet	11.5		96.9		71.6-127.8	1.59	30
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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216478 - SW-846 7471										
Duplicate (B216478-DUP1)		Source: 18J1553-06			Prepared & Analyzed: 11/06/18					
Mercury	ND	0.026	mg/Kg dry		ND			NC	35	
Matrix Spike (B216478-MS1)		Source: 18J1553-06			Prepared & Analyzed: 11/06/18					
Mercury	0.176	0.027	mg/Kg dry	0.179	0.0136	90.5	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216167 - SM21-22 2510B Modified										
Blank (B216167-BLK1)				Prepared & Analyzed: 11/01/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B216167-BS1)				Prepared & Analyzed: 11/01/18						
Specific conductance	200		µmhos/cm	192		103	90-110			
Batch B216215 - SW-846 9014										
Blank (B216215-BLK1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B216215-BS1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Reactive Cyanide	9.3	0.40	mg/Kg	10.0		92.9	83.6-111			
Batch B216238 - SW-846 9045C										
LCS (B216238-BS1)				Prepared & Analyzed: 11/01/18						
pH	5.97		pH Units	6.00		99.5	90-110			
LCS (B216238-BS2)				Prepared & Analyzed: 11/01/18						
pH	6.00		pH Units	6.00		100	90-110			
Duplicate (B216238-DUP1)				Source: 18J1553-08			Prepared & Analyzed: 11/01/18			
pH	5.8		pH Units			5.7		1.52	5	
Batch B216441 - SW-846 9030A										
Blank (B216441-BLK1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B216441-BS1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Reactive Sulfide	13	2.0	mg/Kg	14.8		89.2	54.9-121			
Batch B216456 - % Solids										
Duplicate (B216456-DUP2)				Source: 18J1553-01			Prepared: 11/05/18 Analyzed: 11/06/18			
% Solids	87.3		% Wt			84.6		3.11	20	

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BREAKDOWN REPORT

Lab Sample ID: S029015-PEM1 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.93
Endrin [1] 2.65

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.12
Endrin [2] 3.55

BREAKDOWN REPORT

Lab Sample ID: S029015-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.40
Endrin [1] 2.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.96
Endrin [2] 2.37

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.31
Endrin [1] 4.21

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BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.84
Endrin [2] 4.36

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM2 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.23
Endrin [1] 3.40

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.20
Endrin [2] 3.46

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM3 **Analyzed:** 11/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.94
Endrin [1] 3.13

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.35
Endrin [2] 3.21

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB-51

SW-846 8081B

Lab Sample ID: 18J1553-01 Date(s) Analyzed: 11/03/2018 11/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.978	7.952	8.012	0.0088	
	2	7.991	7.962	8.022	0.0077	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB-37

SW-846 8081B

Lab Sample ID: 18J1553-03 Date(s) Analyzed: 11/03/2018 11/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.978	7.952	8.012	0.0098	
	2	7.990	7.962	8.022	0.0077	24.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB-39

SW-846 8081B

Lab Sample ID: 18J1553-05 Date(s) Analyzed: 11/03/2018 11/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.979	7.952	8.012	0.0089	
	2	7.990	7.962	8.022	0.0058	42.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B216139-BS1 Date(s) Analyzed: 11/02/2018 11/02/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B216139-BSD1 Date(s) Analyzed: 11/02/2018 11/02/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.18	11.8
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS

Lab Sample ID: B216140-BS1 Date(s) Analyzed: 11/02/2018 11/02/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.205	0.000	0.000	10.6	
	2	15.804	0.000	0.000	11.6	5.3
2,4,5-TP (Silvex)	1	15.578	0.000	0.000	10.9	
	2	14.959	0.000	0.000	11.4	3.6
2,4-D	1	13.726	0.000	0.000	105	
	2	13.227	0.000	0.000	109	0.9
2,4-DB	1	17.000	0.000	0.000	108	
	2	16.784	0.000	0.000	118	7.0
Dalapon	1	4.594	0.000	0.000	196	
	2	4.086	0.000	0.000	197	1.5
Dicamba	1	11.589	0.000	0.000	10.9	
	2	11.037	0.000	0.000	11.1	0.9
Dichloroprop	1	13.209	0.000	0.000	118	
	2	12.551	0.000	0.000	116	3.4
Dinoseb	1	17.645	0.000	0.000	19.2	
	2	17.042	0.000	0.000	21.8	13.7
MCPA	1	12.416	0.000	0.000	10300	
	2	11.866	0.000	0.000	9710	2.9
MCPD	1	12.082	0.000	0.000	13500	
	2	11.379	0.000	0.000	10400	29.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS Dup

Lab Sample ID: B216140-BSD1 Date(s) Analyzed: 11/02/2018 11/02/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.201	0.000	0.000	10.9	
	2	15.800	0.000	0.000	11.3	2.7
2,4,5-TP (Silvex)	1	15.577	0.000	0.000	11.3	
	2	14.957	0.000	0.000	12.0	8.7
2,4-D	1	13.723	0.000	0.000	110	
	2	13.225	0.000	0.000	120	8.7
2,4-DB	1	16.999	0.000	0.000	114	
	2	16.782	0.000	0.000	123	11.2
Dalapon	1	4.594	0.000	0.000	203	
	2	4.087	0.000	0.000	205	2.5
Dicamba	1	11.588	0.000	0.000	11.4	
	2	11.036	0.000	0.000	11.6	5.3
Dichloroprop	1	13.207	0.000	0.000	129	
	2	12.550	0.000	0.000	120	8.0
Dinoseb	1	17.645	0.000	0.000	22.7	
	2	17.041	0.000	0.000	25.4	9.9
MCPA	1	12.415	0.000	0.000	10900	
	2	11.866	0.000	0.000	10200	7.6
MCPD	1	12.082	0.000	0.000	14400	
	2	11.379	0.000	0.000	10700	26.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8151A

Lab Sample ID: B216140-MS1 Date(s) Analyzed: 11/03/2018 11/03/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.187	0.000	0.000	10.9	
	2	15.782	0.000	0.000	12.0	8.7
2,4,5-TP (Silvex)	1	15.566	0.000	0.000	11.5	
	2	14.942	0.000	0.000	12.2	1.7
2,4-D	1	13.713	0.000	0.000	112	
	2	13.210	0.000	0.000	121	9.5
2,4-DB	1	16.995	0.000	0.000	118	
	2	16.774	0.000	0.000	137	13.2
Dalapon	1	4.592	0.000	0.000	223	
	2	4.084	0.000	0.000	227	3.1
Dicamba	1	11.584	0.000	0.000	11.5	
	2	11.029	0.000	0.000	12.0	0.0
Dichloroprop	1	13.202	0.000	0.000	134	
	2	12.540	0.000	0.000	124	4.7
Dinoseb	1	17.646	0.000	0.000	23.4	
	2	17.038	0.000	0.000	26.4	13.8
MCPA	1	12.411	0.000	0.000	11200	
	2	11.858	0.000	0.000	10200	7.6
MCPD	1	12.078	0.000	0.000	15300	
	2	11.371	0.000	0.000	10900	31.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8151A

Matrix Spike Dup

Lab Sample ID: B216140-MSD1 Date(s) Analyzed: 11/03/2018 11/03/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.188	0.000	0.000	10.0	
	2	15.782	0.000	0.000	11.3	12.2
2,4,5-TP (Silvex)	1	15.569	0.000	0.000	10.5	
	2	14.942	0.000	0.000	11.1	0.9
2,4-D	1	13.711	0.000	0.000	104	
	2	13.210	0.000	0.000	110	9.5
2,4-DB	1	16.994	0.000	0.000	111	
	2	16.774	0.000	0.000	130	16.7
Dalapon	1	4.591	0.000	0.000	195	
	2	4.082	0.000	0.000	197	1.5
Dicamba	1	11.583	0.000	0.000	10.7	
	2	11.029	0.000	0.000	10.8	1.8
Dichloroprop	1	13.200	0.000	0.000	115	
	2	12.540	0.000	0.000	114	5.1
Dinoseb	1	17.644	0.000	0.000	24.8	
	2	17.036	0.000	0.000	28.0	11.3
MCPA	1	12.408	0.000	0.000	10400	
	2	11.856	0.000	0.000	9530	4.8
MCPD	1	12.075	0.000	0.000	13600	
	2	11.369	0.000	0.000	10100	32.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8081B

Lab Sample ID: B216154-BS1 Date(s) Analyzed: 11/02/2018 11/03/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.731	6.701	6.761	0.093	
	2	6.559	6.529	6.589	0.087	6.7
4,4'-DDE	1	6.318	6.288	6.348	0.093	
	2	6.165	6.136	6.196	0.085	9.0
4,4'-DDT	1	6.932	6.902	6.962	0.098	
	2	6.778	6.747	6.807	0.088	10.8
Alachlor	1	5.804	5.775	5.835	0.073	
	2	5.460	5.430	5.490	0.070	4.2
Aldrin	1	5.701	5.672	5.732	0.072	
	2	5.486	5.456	5.516	0.069	4.3
alpha-BHC	1	5.079	5.049	5.109	0.046	
	2	4.917	4.888	4.948	0.041	13.6
alpha-Chlordane	1	6.254	6.224	6.284	0.081	
	2	6.035	6.006	6.066	0.078	5.0
beta-BHC	1	5.304	5.274	5.334	0.055	
	2	5.143	5.111	5.171	0.054	1.8
delta-BHC	1	5.402	5.372	5.432	0.052	
	2	5.291	5.260	5.320	0.047	10.1
Dieldrin	1	6.505	6.475	6.535	0.085	
	2	6.242	6.212	6.272	0.076	12.3
Endosulfan I	1	6.341	6.311	6.371	0.078	
	2	6.063	6.034	6.094	0.075	3.9
Endosulfan II	1	6.821	6.792	6.852	0.084	
	2	6.592	6.561	6.621	0.081	3.6
Endosulfan Sulfate	1	7.453	7.423	7.483	0.068	
	2	7.041	7.011	7.071	0.066	3.0
Endrin	1	6.663	6.633	6.693	0.087	
	2	6.440	6.410	6.470	0.081	7.1
Endrin Aldehyde	1	7.128	7.098	7.158	0.082	
	2	6.837	6.807	6.867	0.088	7.1
Endrin Ketone	1	7.659	7.629	7.689	0.086	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216154-BS1 Date(s) Analyzed: 11/02/2018 11/03/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.422	7.392	7.452	0.082	4.8
gamma-BHC (Lindane)	1	5.253	5.223	5.283	0.052	
	2	5.091	5.062	5.122	0.049	5.9
gamma-Chlordane	1	6.165	6.136	6.196	0.079	
	2	5.942	5.913	5.973	0.076	5.1
Heptachlor	1	5.523	5.493	5.553	0.064	
	2	5.314	5.284	5.344	0.063	1.6
Heptachlor Epoxide	1	6.084	6.054	6.114	0.078	
	2	5.825	5.796	5.856	0.068	13.7
Hexachlorobenzene	1	4.986	4.956	5.016	0.059	
	2	4.843	4.814	4.874	0.054	8.9
Methoxychlor	1	7.310	7.280	7.340	0.10	
	2	7.313	7.282	7.342	0.10	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216154-BSD1 Date(s) Analyzed: 11/02/2018 11/03/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.731	6.701	6.761	0.099	
	2	6.559	6.529	6.589	0.093	6.3
4,4'-DDE	1	6.318	6.288	6.348	0.10	
	2	6.166	6.136	6.196	0.091	9.4
4,4'-DDT	1	6.932	6.902	6.962	0.10	
	2	6.777	6.747	6.807	0.094	15.7
Alachlor	1	5.803	5.775	5.835	0.079	
	2	5.459	5.430	5.490	0.076	3.9
Aldrin	1	5.701	5.672	5.732	0.079	
	2	5.486	5.456	5.516	0.075	5.2
alpha-BHC	1	5.078	5.049	5.109	0.054	
	2	4.917	4.888	4.948	0.047	13.9
alpha-Chlordane	1	6.253	6.224	6.284	0.088	
	2	6.034	6.006	6.066	0.084	4.7
beta-BHC	1	5.304	5.274	5.334	0.063	
	2	5.143	5.111	5.171	0.062	1.6
delta-BHC	1	5.402	5.372	5.432	0.063	
	2	5.291	5.260	5.320	0.059	6.6
Dieldrin	1	6.504	6.475	6.535	0.092	
	2	6.241	6.212	6.272	0.081	12.7
Endosulfan I	1	6.340	6.311	6.371	0.083	
	2	6.063	6.034	6.094	0.080	3.7
Endosulfan II	1	6.821	6.792	6.852	0.090	
	2	6.592	6.561	6.621	0.087	3.4
Endosulfan Sulfate	1	7.453	7.423	7.483	0.077	
	2	7.041	7.011	7.071	0.073	5.3
Endrin	1	6.662	6.633	6.693	0.093	
	2	6.440	6.410	6.470	0.087	6.7
Endrin Aldehyde	1	7.127	7.098	7.158	0.078	
	2	6.836	6.807	6.867	0.083	6.2
Endrin Ketone	1	7.660	7.629	7.689	0.090	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216154-BSD1 Date(s) Analyzed: 11/02/2018 11/03/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.422	7.392	7.452	0.086	4.6
gamma-BHC (Lindane)	1	5.252	5.223	5.283	0.060	
	2	5.092	5.062	5.122	0.057	5.1
gamma-Chlordane	1	6.165	6.136	6.196	0.087	
	2	5.942	5.913	5.973	0.083	4.7
Heptachlor	1	5.522	5.493	5.553	0.071	
	2	5.314	5.284	5.344	0.069	2.9
Heptachlor Epoxide	1	6.084	6.054	6.114	0.084	
	2	5.825	5.796	5.856	0.075	11.3
Hexachlorobenzene	1	4.986	4.956	5.016	0.067	
	2	4.843	4.814	4.874	0.062	7.8
Methoxychlor	1	7.310	7.280	7.340	0.10	
	2	7.312	7.282	7.342	0.10	0.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
O-32	A dilution was performed as part of the standard analytical procedure.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8151A in Soil</i>	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
<i>SW-846 8151A in Water</i>	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

185 1553

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



Page 1 of 1

Company Name: VLM
Address: 101 Walnut Street, Watertown, MA
Phone: 617-607-1841
Project Name: Ever source Transmission Project
Project Location: Sudbury, Massachusetts
Project Number: 12970-03
Project Manager: Paige Cornell
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: FB

Requested Turnaround Time: 7-Day 10-Day
Due Date:
Analysis Requested: 1-Day 3-Day 4-Day
Format: PDF EXCEL
Other: Limit Check
CLP Like Data Pkg Required:
Email To: p.cornell@vhl.com; p.mclintay@vhl.com; m.fitch@vhl.com; d.beats@vhl.com
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code	Ignitability, pH, Reactivity	Conductivity	Pesticide/Herbicide	SVOCS, PCBs, TPH	VOCs	MCP 14 Metals
01	SB-51	10/24/18	1057	x	x	S	U	x	x	x	x	x	x
02	SB-50	10/25/18	0914					x	x	x	x	x	x
03	SB-37		1020					x	x	x	x	x	x
04	SB-38		1105					x	x	x	x	x	x
05	SB-39		1210					x	x	x	x	x	x
06	MP 37	10/26/18	0150					x	x	x	x	x	x
07	MP 38		1005					x	x	x	x	x	x
08	MP 39		1235					x	x	x	x	x	x

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define) _DI
 H2O

Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 PW/SID #

Project Entry:
 Government Municipality MWRA WRTA
 Federal 21 J School AHA-LAP, LLC
 City Brownfield MBTA

Other:
 Chromatogram
 Non Soxhlet
 Soxhlet

Comments:
 Waits frozen on day of generation by 16:00
 Retinquired by: (signature) 10/31/18 0730
 Received by: (signature) 10/31/18 1430
 Retinquired by: (signature) 10/31/18 2030
 Received by: (signature) 10/31/18 2030
 Retinquired by: (signature) 10/31/18 2030
 Received by: (signature)

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 ANALYTICAL LABORATORY
 www.contestlabs.com

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By LR Date 10-31-18 Time 2030

How were the samples received? In Cooler No Cooler On Ice No Ice
 Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C By Gun # 557 Actual Temp - 2.4
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? Does Chain Agree With Samples?

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? Were samples received within holding time? * F
 Did COC include all pertinent Information? Client Analysis Sampler Name
 Project ID's Collection Dates/Times

Are Sample labels filled out and legible?

Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? T Who was notified? like

Is there enough Volume? T
 Is there Headspace where applicable? T MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	8	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	16	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

Received out of time for pH analysis

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 18J1553
Project Location: Sudbury, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
18J1553-01 thru 18J1553-08

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Tod Kopyscinski

Position: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 11/09/18

November 27, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K0275

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0275

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B42	18K0275-01	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP27	18K0275-02	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP28	18K0275-03	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP29	18K0275-04	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0275

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP30	18K0275-05	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP31	18K0275-06	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP35	18K0275-07	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/2/2018 13:00

Field Sample #: B42

Sample ID: 18K0275-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/15/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/2/2018 13:00

Field Sample #: B42

Sample ID: 18K0275-01

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/19/18 0:00	11/19/18 0:00	GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00	11/19/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 11:00

Field Sample #: MP27

Sample ID: 18K0275-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/14/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 11:00

Field Sample #: MP27

Sample ID: 18K0275-02

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/20/18 0:00		GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0275-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/15/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0275-03

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00		GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/14/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0275-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/19/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0275-04

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00		GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/20/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0275-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/14/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0275-05

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00		GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/16/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0275-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/15/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0275-06

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/16/18 0:00		GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Field Sample #: MP35

Sample ID: 18K0275-07

Start Date/Time: 11/6/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 11/6/2018 12:00:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached	Attached	Attached	1		ASTM D6913		11/19/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0275

Date Received: 11/6/2018

Field Sample #: MP35

Sample ID: 18K0275-07

Start Date/Time: 11/6/2018 10:05:00AM

Sample Matrix: Soil

Stop Date/Time: 11/6/2018 12:00:00PM

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D2216	11/19/18 0:00	0:00	GTE
See Attached Report Pages	Attached	Attached	Attached	1		ASTM D1557	11/19/18 0:00	0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

URL: www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Phones: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



KXM
 CONTEST LABS

Address: 101 Walnut Street, Watertown, MA
 Phone: 617-607-1841

Project Name: Resource Transitions Project
 Project Location: Sudbury, Massachusetts

Project Number: 12970.03

Project Manager: Paige Cornell

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By:

Con-Test Work Order#	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
01	MP21	11/16/18	10:30	X	S	U	
02	MP22	11/16/18	11:00				
03	MP23	11/16/18	11:30				
04	MP24	11/16/18	12:00				
05	MP25	11/16/18	12:30				
06	MP26	11/16/18	13:00				
07	MP27	11/16/18	13:30				

ANALYSIS REQUESTED

Grain Size
 Proctor
 Moisture

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium
 Thiosulfate
 O = Other (please define) _DI
 H2O

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define) 5-gallon bucket

PCB ONLY
 Soxhlet
 Non Soxhlet

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown



Special Requirements

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State DW Required

PWSID # _____

Project Entity

Government Municipality MWRA Other

Federal City 21 J School Chromatogram

Brownfield MBTA AHA-LAP, LLC

Relinquished by: (signature) [Signature] Date/Time: 11/16/18 14:30

Received by: (signature) [Signature] Date/Time: 11-6-18 15:30

Relinquished by: (signature) [Signature] Date/Time: 11-6-18 16:31

Received by: (signature) [Signature] Date/Time: 11/16/18 4:30

Relinquished by: (signature) _____ Date/Time: _____



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	---
Sample ID:	---	Test Date:	11/19/18
Depth :	---	Test Id:	480764

Moisture Content of Soil and Rock - ASTM D2216

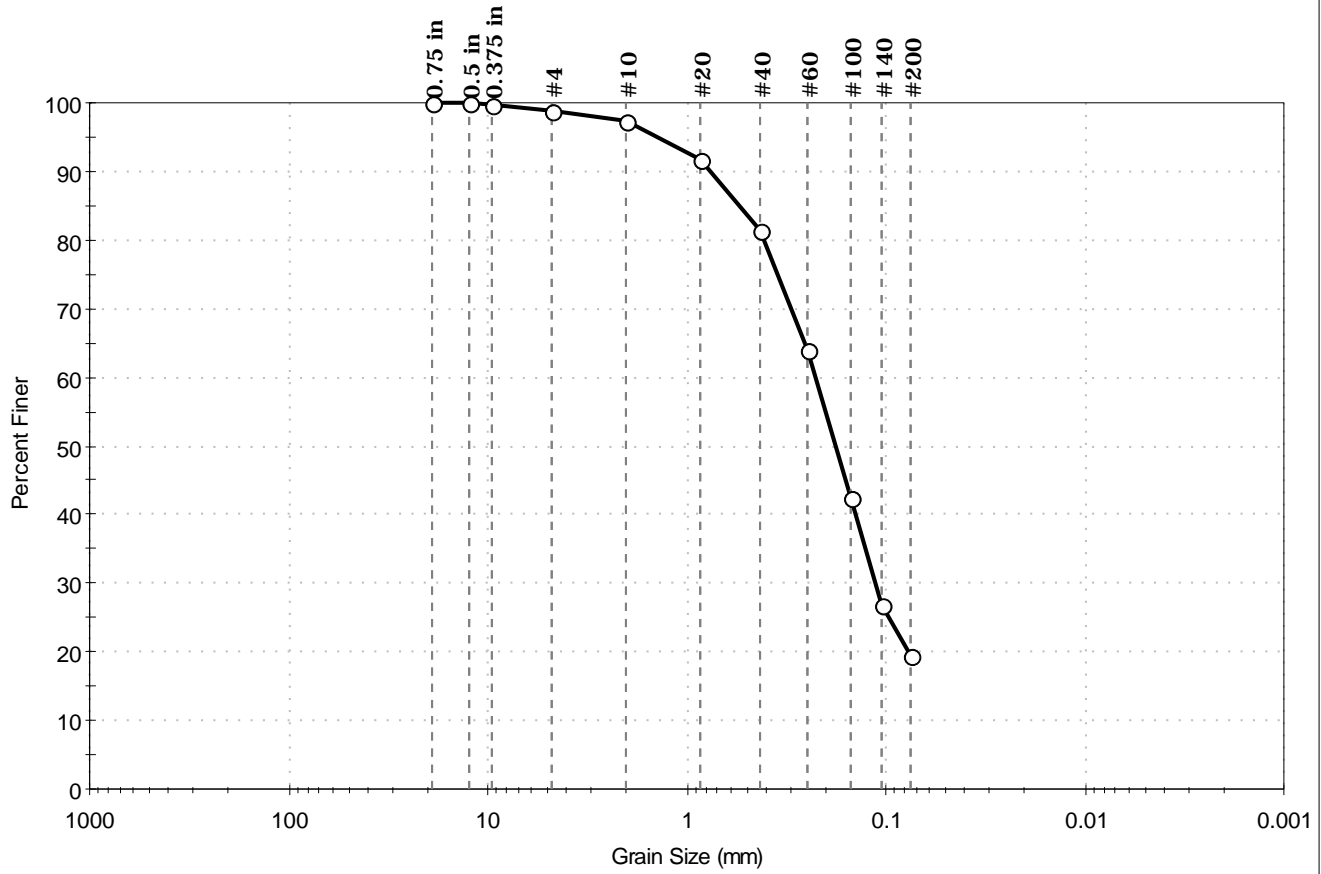
Boring ID	Sample ID	Depth	Description	Moisture Content, %
---	B42	---	Moist, olive brown silty sand	17.6
---	MP27	---	Moist, light olive brown sand with silt	15.6
---	MP28	---	Moist, olive yellow sand with silt	10.3
---	MP29	---	Moist, light olive brown silty sand	13.6
---	MP30	---	Moist, light olive brown silty sand	16.3
---	MP31	---	Moist, light olive brown silty sand	24.7
---	MP35	---	Moist, olive brown silty sand	18.9

Notes: Temperature of Drying : 110° Celsius



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B42	Test Date:	11/15/18
Depth:	---	Test Id:	480744
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	1.2	79.2	19.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	100		
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	97		
#20	0.85	92		
#40	0.42	81		
#60	0.25	64		
#100	0.15	42		
#140	0.11	27		
#200	0.075	20		

<u>Coefficients</u>	
D ₈₅ = 0.5428 mm	D ₃₀ = 0.1135 mm
D ₆₀ = 0.2278 mm	D ₁₅ = N/A
D ₅₀ = 0.1794 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

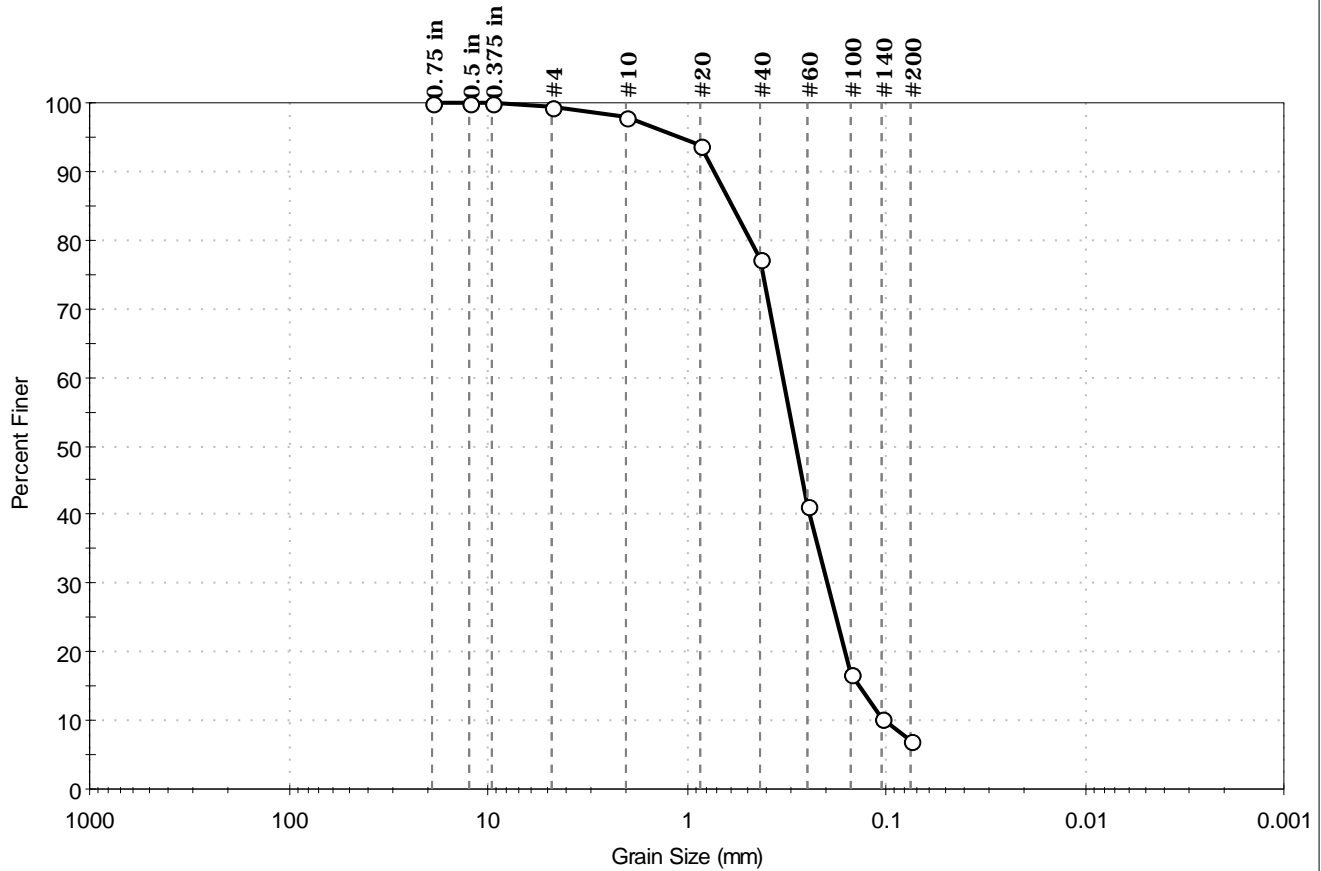
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP27	Test Date:	11/14/18
Depth:	---	Test Id:	480745
Test Comment:	---		
Visual Description:	Moist, light olive brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.7	92.2	7.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	100		
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	98		
#20	0.85	94		
#40	0.42	77		
#60	0.25	41		
#100	0.15	17		
#140	0.11	10		
#200	0.075	7.1		

<u>Coefficients</u>	
D ₈₅ = 0.5889 mm	D ₃₀ = 0.1974 mm
D ₆₀ = 0.3295 mm	D ₁₅ = 0.1356 mm
D ₅₀ = 0.2843 mm	D ₁₀ = 0.1019 mm
C _u = 3.234	C _c = 1.161

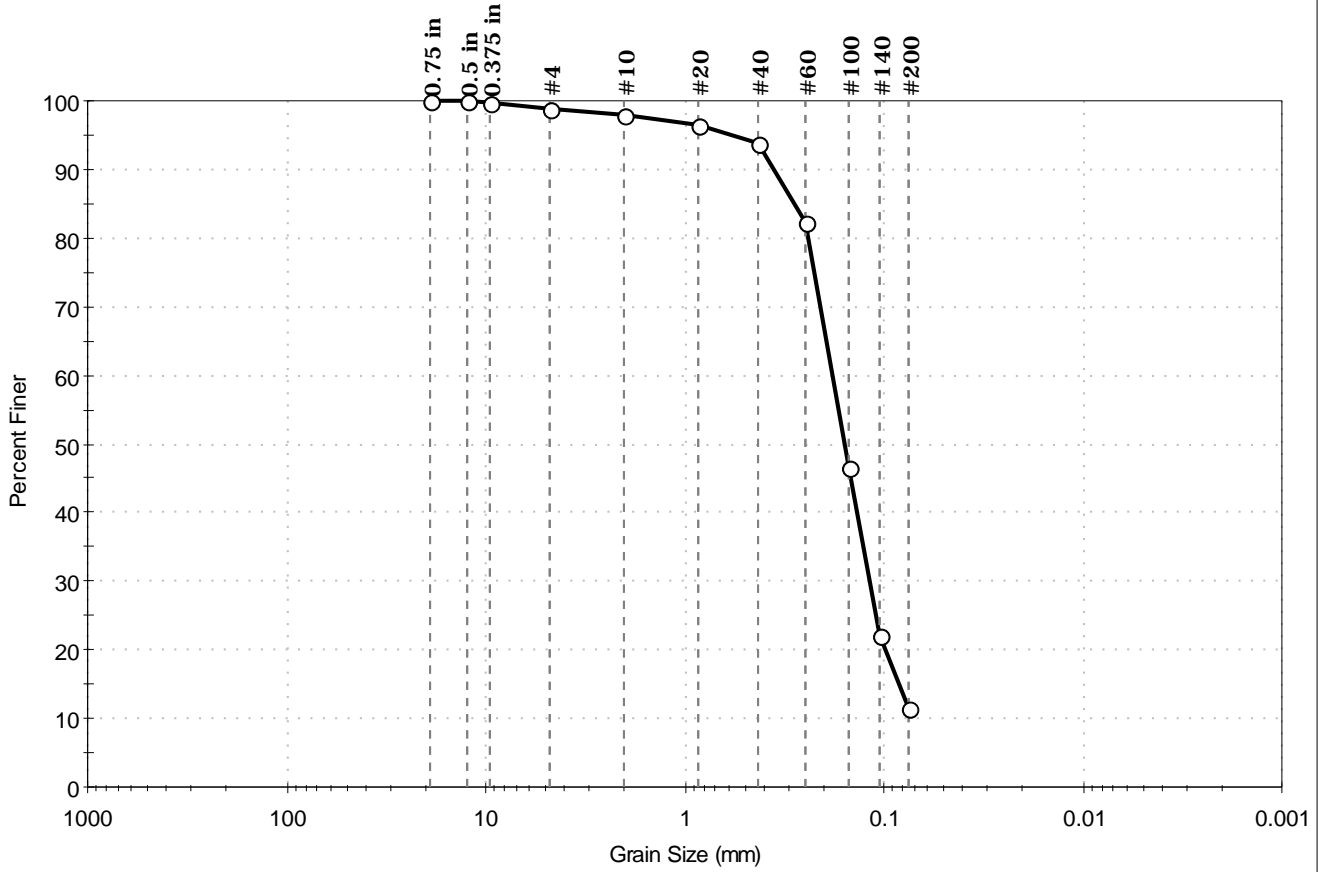
<u>Classification</u>	
ASTM	N/A
AASHTO	Fine Sand (A-3 (1))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP28	Test Date:	11/15/18
Depth:	---	Test Id:	480746
Test Comment:	---		
Visual Description:	Moist, olive yellow sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	1.3	87.2	11.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	100		
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	98		
#20	0.85	97		
#40	0.42	94		
#60	0.25	82		
#100	0.15	47		
#140	0.11	22		
#200	0.075	11		

<u>Coefficients</u>	
D ₈₅ = 0.2839 mm	D ₃₀ = 0.1185 mm
D ₆₀ = 0.1818 mm	D ₁₅ = 0.0841 mm
D ₅₀ = 0.1575 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

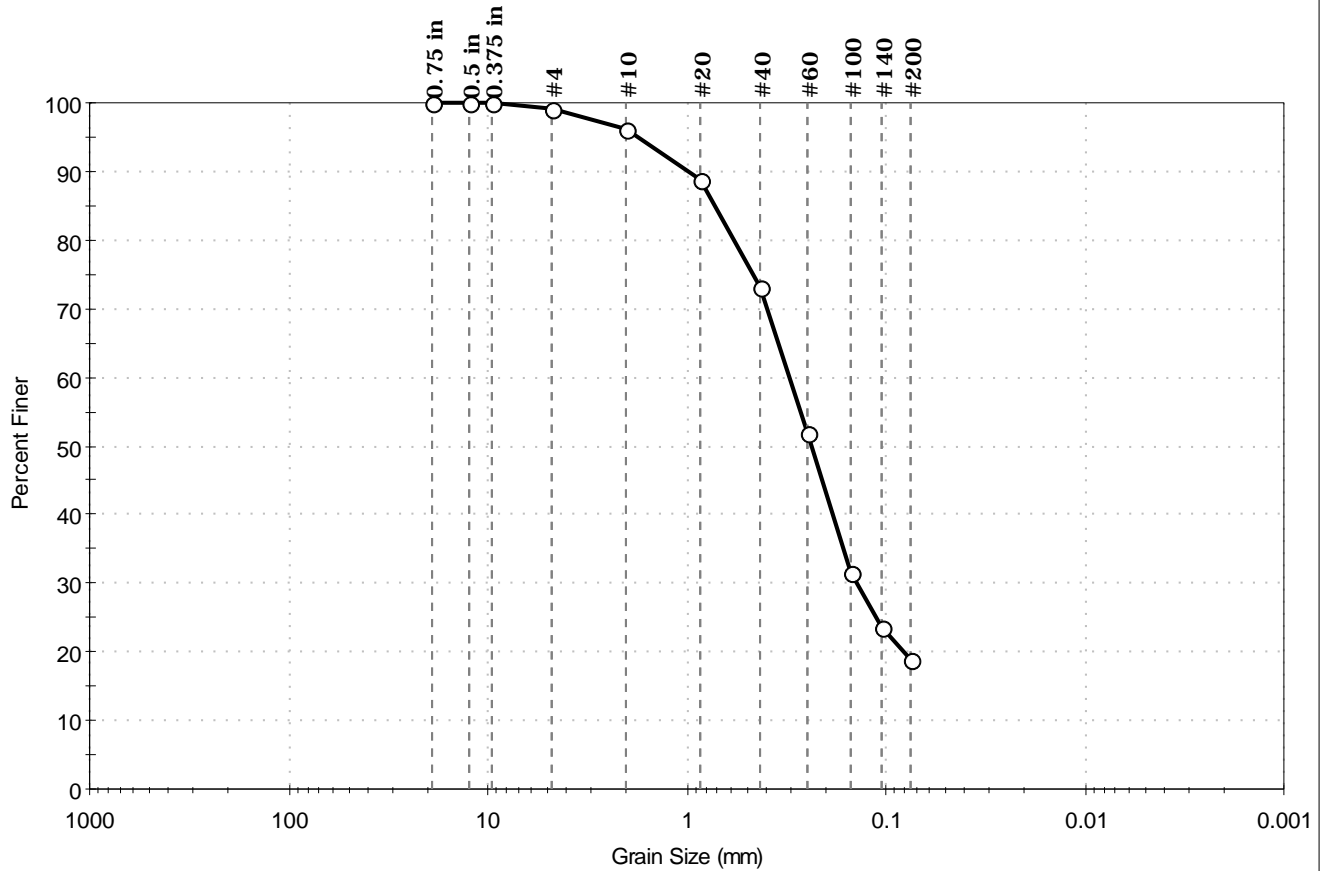
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP29	Test Date:	11/19/18
Depth :	---	Test Id:	480747
Test Comment:	---		
Visual Description:	Moist, light olive brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.8	80.3	18.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	100		
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	96		
#20	0.85	89		
#40	0.42	73		
#60	0.25	52		
#100	0.15	32		
#140	0.11	24		
#200	0.075	19		

Coefficients	
D ₈₅ = 0.7191 mm	D ₃₀ = 0.1402 mm
D ₆₀ = 0.3055 mm	D ₁₅ = N/A
D ₅₀ = 0.2379 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

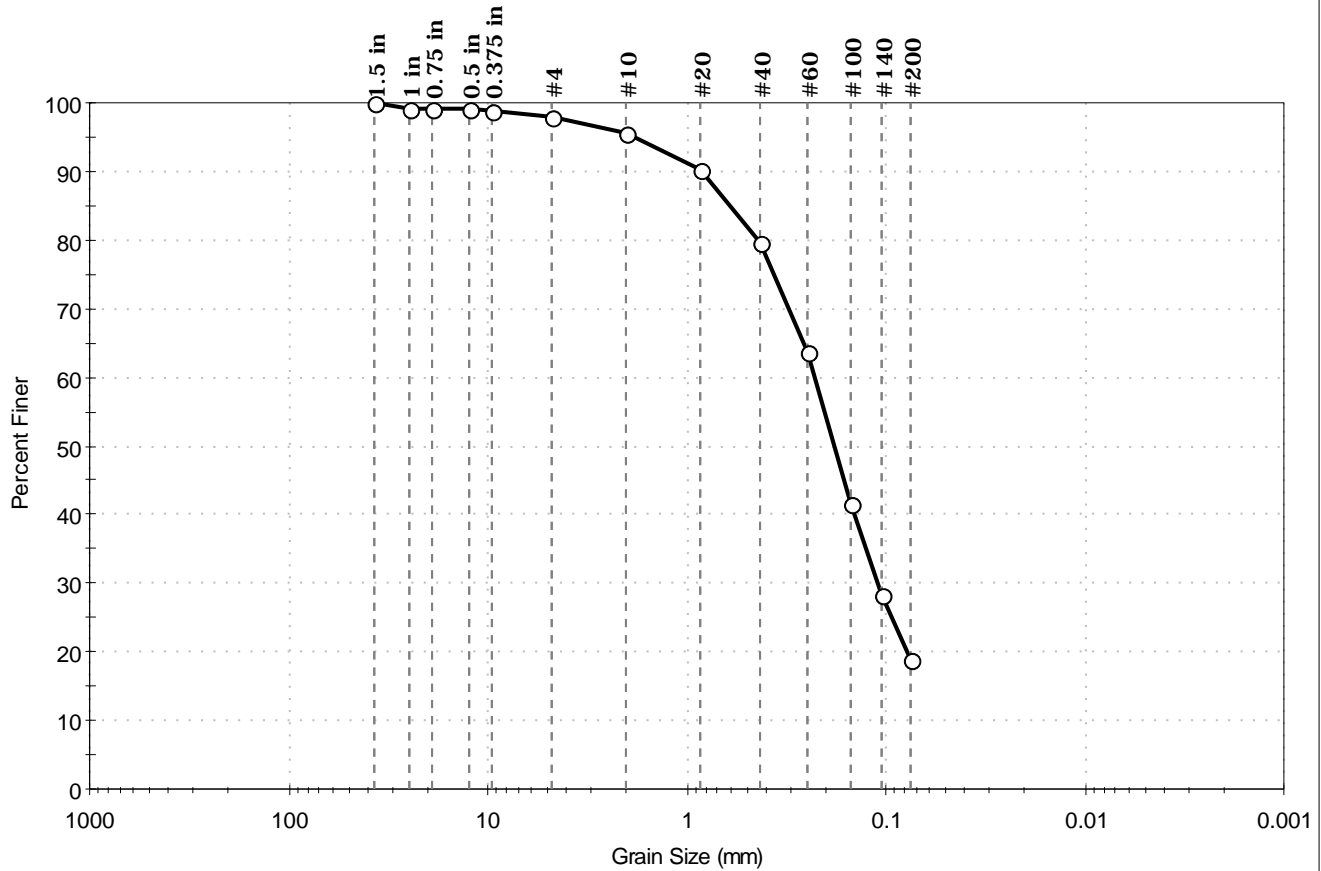
Classification	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	ckg	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/14/18	Test Id:	480748
Sample ID:	MP30	Visual Description:	Moist, light olive brown silty sand		
Depth:	---	Sample Comment:	Sample contains organics		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	2.1	79.1	18.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	99		
0.75 in	19.00	99		
0.5 in	12.50	99		
0.375 in	9.50	99		
#4	4.75	98		
#10	2.00	95		
#20	0.85	90		
#40	0.42	80		
#60	0.25	64		
#100	0.15	41		
#140	0.11	28		
#200	0.075	19		

Coefficients	
D ₈₅ = 0.6041 mm	D ₃₀ = 0.1111 mm
D ₆₀ = 0.2289 mm	D ₁₅ = N/A
D ₅₀ = 0.1822 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

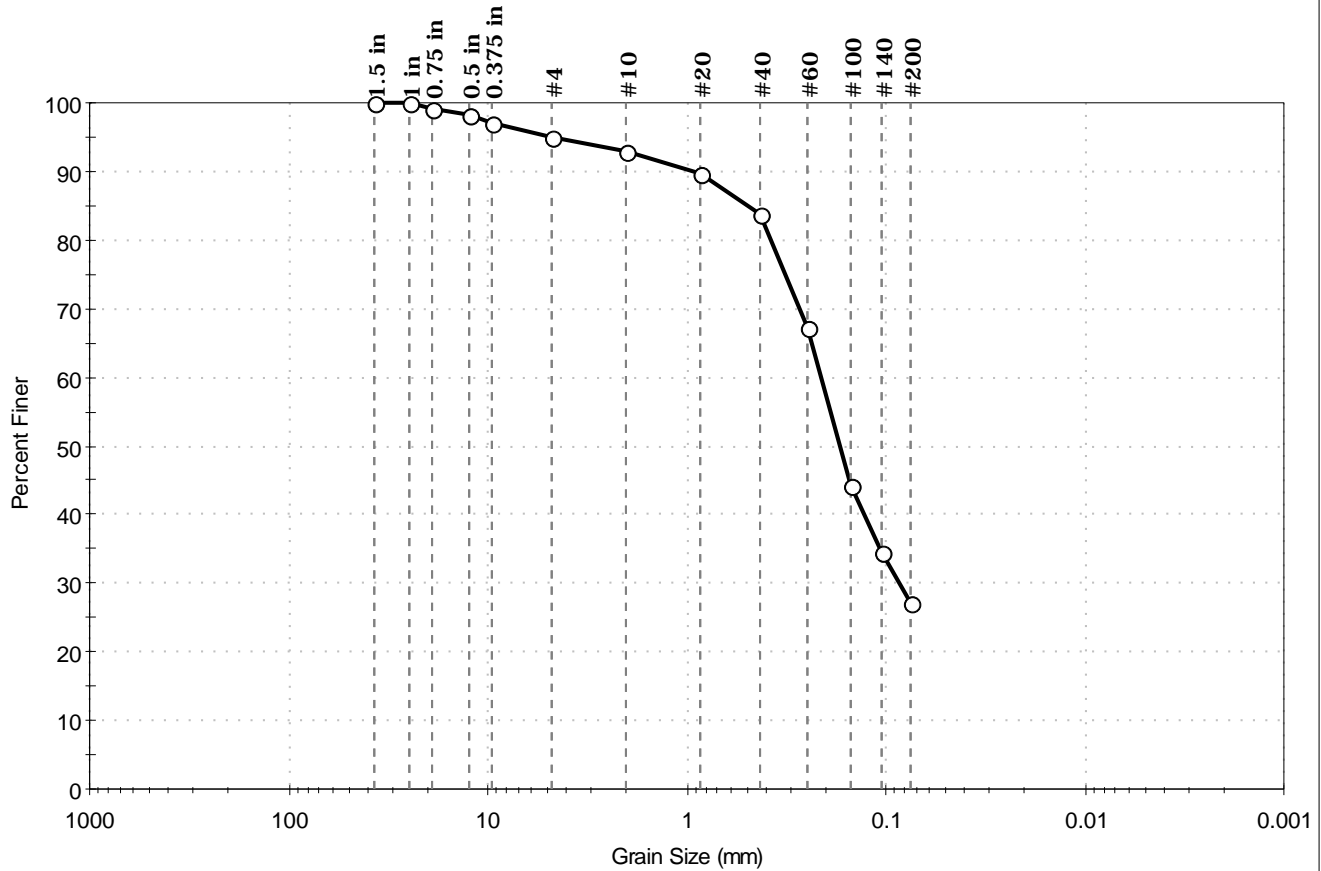
Classification	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP31	Test Date:	11/15/18
Depth:	---	Test Id:	480749
Test Comment:	---		
Visual Description:	Moist, light olive brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	5.0	67.9	27.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	98		
0.375 in	9.50	97		
#4	4.75	95		
#10	2.00	93		
#20	0.85	90		
#40	0.42	84		
#60	0.25	67		
#100	0.15	44		
#140	0.11	34		
#200	0.075	27		

<u>Coefficients</u>	
D ₈₅ = 0.4910 mm	D ₃₀ = 0.0861 mm
D ₆₀ = 0.2124 mm	D ₁₅ = N/A
D ₅₀ = 0.1699 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

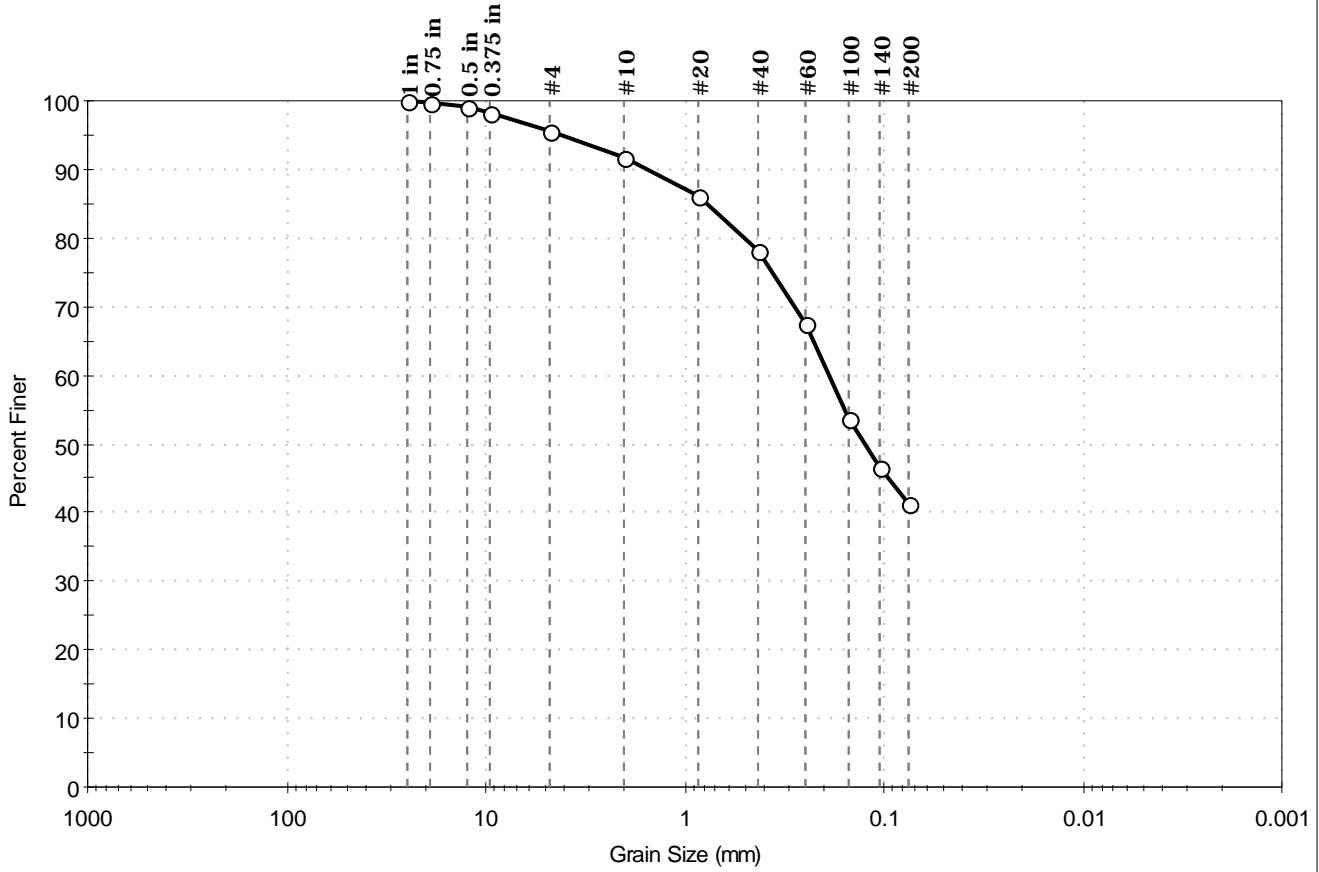
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP35	Test Date:	11/19/18
Depth:	---	Test Id:	480750
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	4.5	54.1	41.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	100		
0.5 in	12.50	99		
0.375 in	9.50	98		
#4	4.75	96		
#10	2.00	92		
#20	0.85	86		
#40	0.42	78		
#60	0.25	67		
#100	0.15	54		
#140	0.11	47		
#200	0.075	41		

Coefficients

D ₈₅ = 0.7674 mm	D ₃₀ = N/A
D ₆₀ = 0.1893 mm	D ₁₅ = N/A
D ₅₀ = 0.1252 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

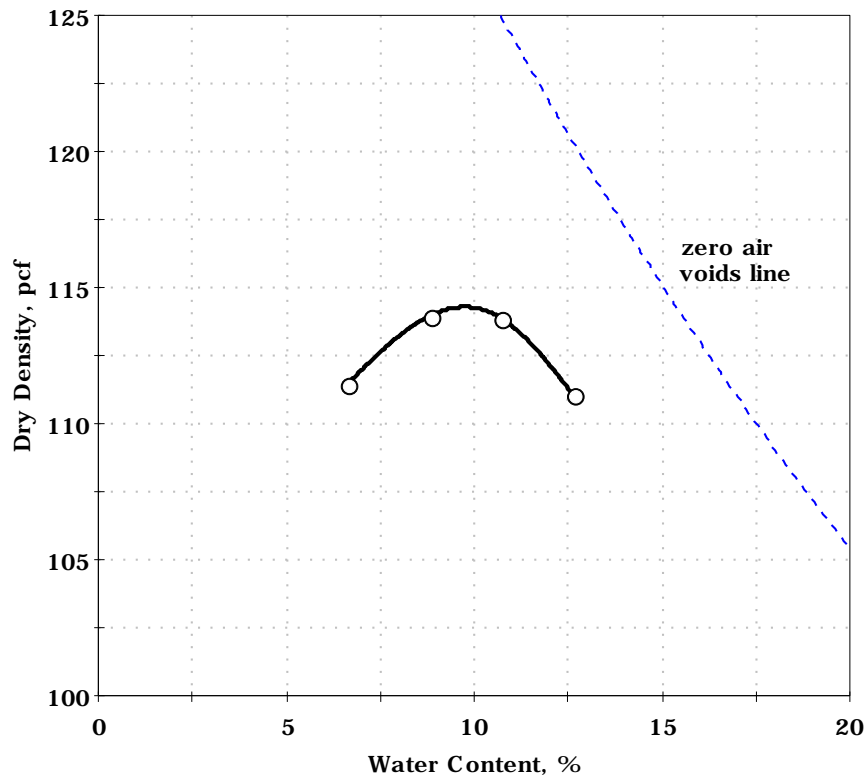
Sand/Gravel Particle Shape : **ROUNDED**

Sand/Gravel Hardness : **HARD**



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/19/18	Test Id:	480751
Sample ID:	B42	Test Comment:	---		
Depth :	---	Visual Description:	Moist, olive brown silty sand		
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	111.5	114.0	113.9	111.1
Moisture Content, %	6.6	8.8	10.7	12.6

Method : A

Preparation : DRY

As received Moisture : 18 %

Rammer : Mechanical

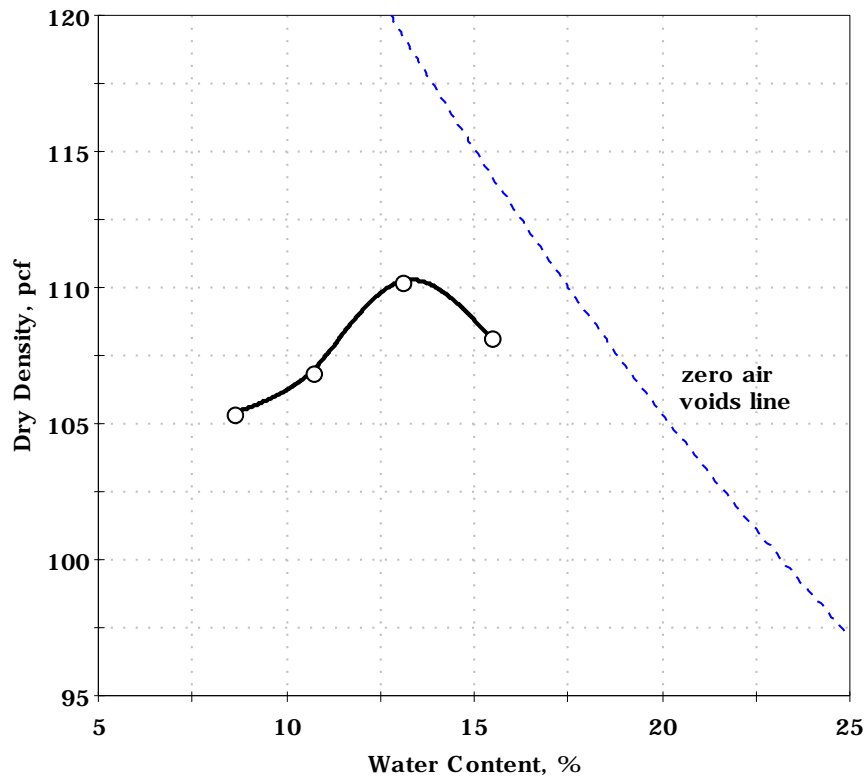
Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 114.3 pcf
Optimum Moisture= 9.8 %



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	cwd
Location:	Sudbury, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP27	Test Date:	11/20/18
Depth :	---	Test Id:	480752
Test Comment:	---		
Visual Description:	Moist, light olive brown sand with silt		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	105.4	106.9	110.2	108.2
Moisture Content, %	8.6	10.7	13.1	15.4

Method : A

Preparation : DRY

As received Moisture : 16 %

Rammer : Mechanical

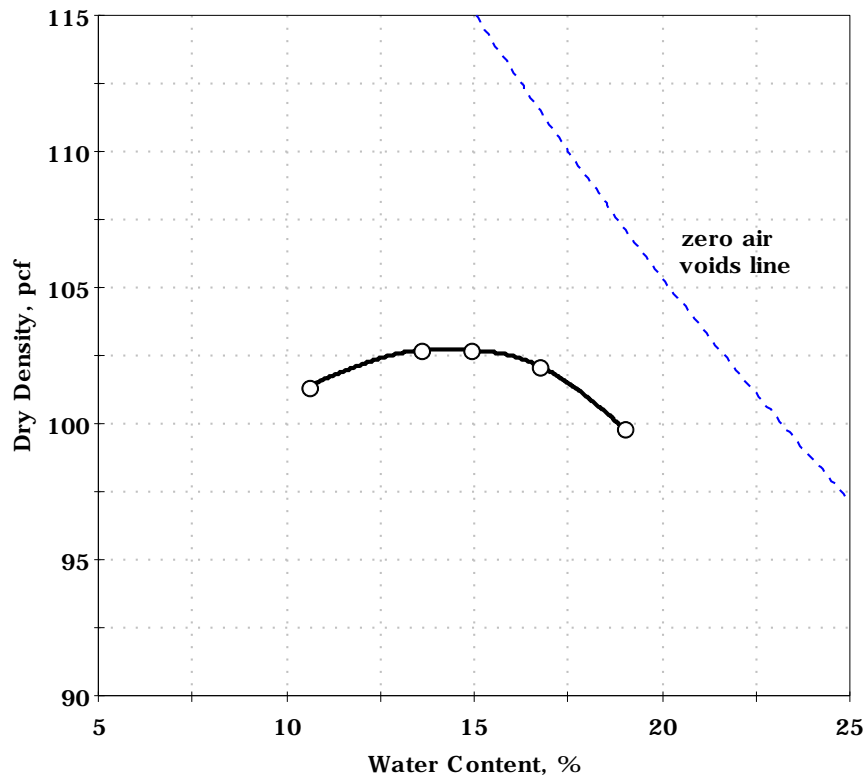
Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 110.3 pcf
Optimum Moisture= 13.3 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/14/18	Test Id:	480753
Sample ID:	MP28	Visual Description:	Moist, olive yellow sand with silt		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	101.4	102.7	102.7	102.2	99.9
Moisture Content, %	10.6	13.5	14.9	16.7	19.0

Method : A

Preparation : DRY

As received Moisture : 10 %

Rammer : Mechanical

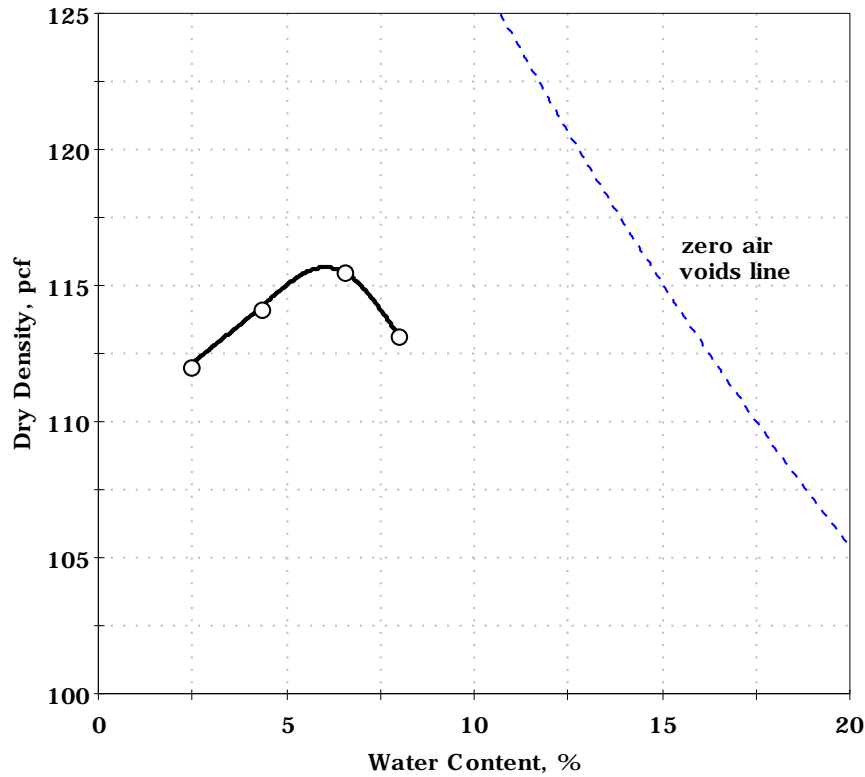
Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 102.8 pcf
Optimum Moisture= 14.2 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/20/18	Test Id:	480754
Sample ID:	MP29	Test Comment:	---		
Depth :	---	Visual Description:	Moist, light olive brown silty sand		
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	112.0	114.1	115.5	113.2
Moisture Content, %	2.4	4.3	6.5	8.0

Method : A

Preparation : DRY

As received Moisture : 14 %

Rammer : Mechanical

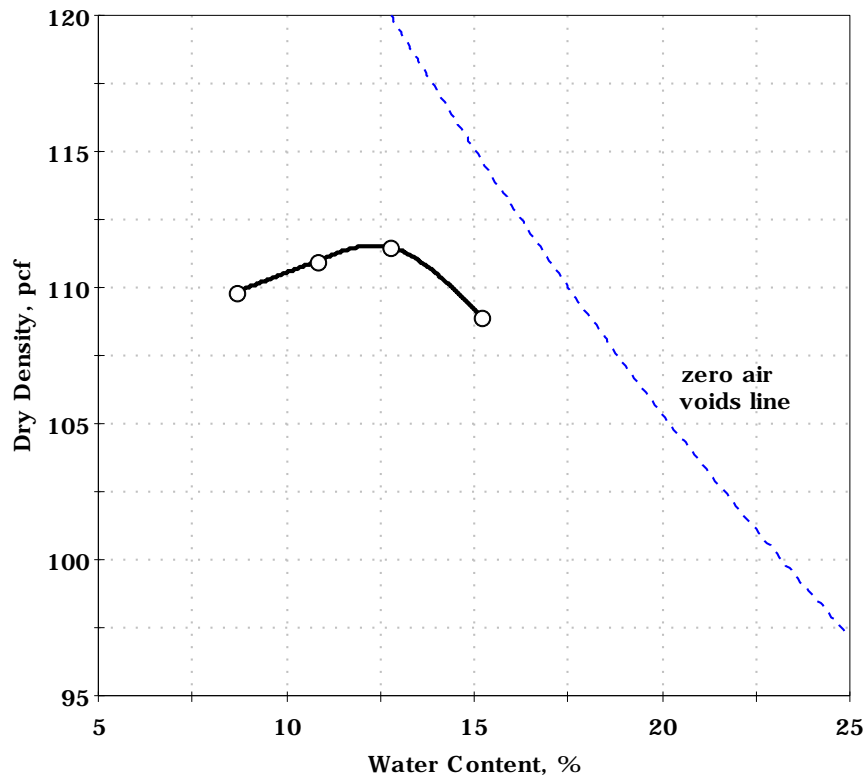
Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 115.7 pcf
Optimum Moisture= 6.1 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/16/18	Test Id:	480755
Sample ID:	MP30	Test Comment:	---		
Depth :	---	Visual Description:	Moist, light olive brown silty sand		
Sample Comment:	Sample contains organics				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	109.8	111.0	111.5	108.9
Moisture Content, %	8.7	10.8	12.7	15.2

Method : A

Preparation : DRY

As received Moisture : 16 %

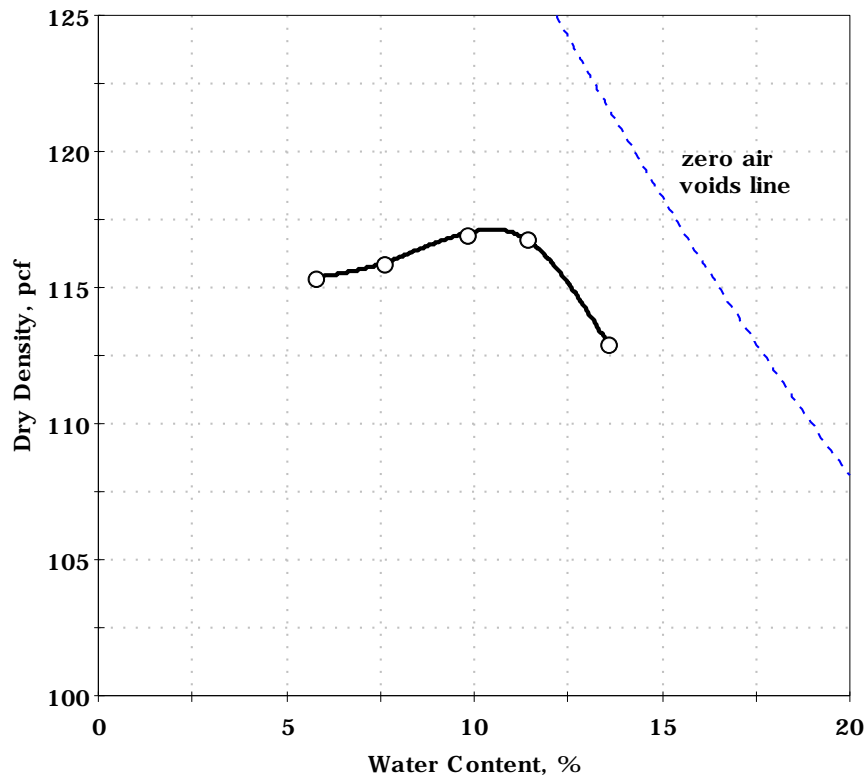
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 111.6 pcf
Optimum Moisture= 12.3 %

Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/16/18	Test Id:	480756
Sample ID:	MP31	Visual Description:	Moist, light olive brown silty sand		
Depth :	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	115.4	115.9	117.0	116.8	113.0
Moisture Content, %	5.7	7.6	9.8	11.4	13.6

Method : B

Preparation : DRY

As received Moisture : 25 %

Rammer : Mechanical

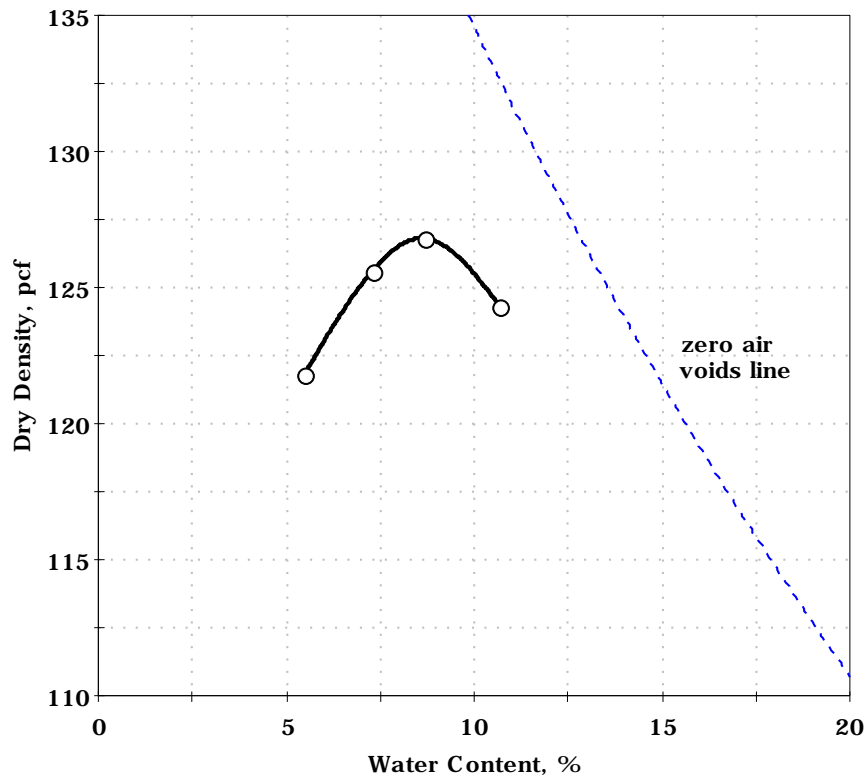
Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 117.1 pcf
Optimum Moisture= 10.5 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	11/19/18	Test Id:	480757
Sample ID:	MP35	Test Comment:	---		
Depth :	---	Visual Description:	Moist, olive brown silty sand		
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	121.8	125.6	126.8	124.3
Moisture Content, %	5.5	7.3	8.7	10.7

Method : A

Preparation : DRY

As received Moisture : 19 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 126.8 pcf
Optimum Moisture= 8.6 %

November 14, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K0278

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent 'K' and 'M'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0278

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP33	18K0278-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP27	18K0278-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0278

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP28	18K0278-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP29	18K0278-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0278

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP30	18K0278-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP31	18K0278-06	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/14/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0278

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP35	18K0278-07	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 11/09/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K0278-01[MP33]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35]

SW-846 8100 Modified

Qualifications:**MS-22**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

TPH (C9-C36)
B216634-MS1

SW-846 8151A

Qualifications:**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

2,4,5-T [2C]
B216689-MS1, B216689-MSD1

2,4,5-TP (Silvex) [2C]
B216689-MS1, B216689-MSD1

2,4-D [2C]
B216689-MS1, B216689-MSD1

2,4-DB [2C]
B216689-MS1, B216689-MSD1

Dinoseb
B216689-MS1, B216689-MSD1

Dinoseb [2C]
B216689-BS1, B216689-BSD1, B216689-MS1, B216689-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dinoseb
18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35]

SW-846 8260C

Qualifications:**V-16**

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane
18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216709-BLK1, B216709-BS1, B216709-BSD1

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V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216709-BLK1, B216709-BS1, B216709-BSD1, S029248-CCV1

SW-846 8270D

Qualifications:**E**

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Fluoranthene**

18K0278-01[MP33]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

B216591-MS1, B216591-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Aniline**

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216591-BLK1, B216591-BS1, B216591-BSD1

Pyridine

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216591-BLK1, B216591-BS1, B216591-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**4-Nitrophenol**

B216591-BS1, B216591-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216591-BLK1, B216591-BS1, B216591-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**4-Nitrophenol**

B216591-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Bromophenylphenylether**

B216591-BSD1

4-Chloroaniline

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216591-BLK1, B216591-BS1, B216591-BSD1, B216591-MS1, B216591-MSD1

Aniline

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29], 18K0278-05[MP30], 18K0278-06[MP31], 18K0278-07[MP35], B216591-BLK1, B216591-BS1, B216591-BSD1

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SW-846 9045C

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18K0278-01[MP33], 18K0278-02[MP27], 18K0278-03[MP28], 18K0278-04[MP29]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Benzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Bromobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Bromochloromethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Bromodichloromethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Bromoform	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Bromomethane	ND	0.0049	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 13:17	MFF
2-Butanone (MEK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
n-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
sec-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
tert-Butylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Carbon Disulfide	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Carbon Tetrachloride	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Chlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Chlorodibromomethane	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Chloroethane	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Chloroform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Chloromethane	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
2-Chlorotoluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
4-Chlorotoluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Dibromomethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,3-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,4-Dichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1-Dichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2-Dichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
cis-1,2-Dichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
trans-1,2-Dichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2-Dichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,3-Dichloropropane	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
2,2-Dichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1-Dichloropropene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
cis-1,3-Dichloropropene	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
trans-1,3-Dichloropropene	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Diethyl Ether	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,4-Dioxane	ND	0.049	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Ethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
2-Hexanone (MBK)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Isopropylbenzene (Cumene)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Methylene Chloride	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Naphthalene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
n-Propylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Styrene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Tetrachloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Tetrahydrofuran	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Toluene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2,3-Trichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2,4-Trichlorobenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1,1-Trichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,1,2-Trichloroethane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Trichloroethylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2,3-Trichloropropane	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,2,4-Trimethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
1,3,5-Trimethylbenzene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
Vinyl Chloride	ND	0.0049	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
m+p Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF
o-Xylene	ND	0.00098	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.4	70-130	11/8/18 13:17
Toluene-d8	99.3	70-130	11/8/18 13:17
4-Bromofluorobenzene	98.4	70-130	11/8/18 13:17

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Acenaphthylene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Acetophenone	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Aniline	ND	0.43	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Anthracene	0.56	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Benzo(a)anthracene	3.2	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Benzo(a)pyrene	2.0	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Benzo(b)fluoranthene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Benzo(g,h,i)perylene	0.77	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Benzo(k)fluoranthene	1.2	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Butylbenzylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
4-Chloroaniline	ND	0.84	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Chrysene	2.6	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Dibenz(a,h)anthracene	0.34	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
1,2-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
1,3-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
1,4-Dichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Dimethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4-Dinitrophenol	ND	0.84	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Di-n-octylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Fluoranthene	8.0	0.22	mg/Kg dry	1	E	SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Fluoranthene	8.3	0.43	mg/Kg dry	2		SW-846 8270D	11/7/18	11/12/18 20:39	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Indeno(1,2,3-cd)pyrene	1.1	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
3/4-Methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
4-Nitrophenol	ND	0.84	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
Pyrene	6.4	0.43	mg/Kg dry	2		SW-846 8270D	11/7/18	11/12/18 20:39	BGL
Pyridine	ND	0.43	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 18:12	BGL
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:12	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	67.6	30-130	
2-Fluorophenol	70.2	30-130	
Phenol-d6	74.5	30-130	
Phenol-d6	80.8	30-130	
Nitrobenzene-d5	67.2	30-130	
Nitrobenzene-d5	81.7	30-130	
2-Fluorobiphenyl	58.8	30-130	
2-Fluorobiphenyl	62.8	30-130	
2,4,6-Tribromophenol	92.4	30-130	
2,4,6-Tribromophenol	89.3	30-130	
p-Terphenyl-d14	65.6	30-130	
p-Terphenyl-d14	67.6	30-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.24	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Aldrin [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
alpha-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
beta-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
delta-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
gamma-BHC (Lindane) [1]	ND	0.024	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Chlordane [1]	ND	0.24	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
4,4'-DDD [1]	ND	0.048	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
4,4'-DDE [1]	ND	0.048	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
4,4'-DDT [1]	ND	0.048	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Dieldrin [1]	ND	0.048	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endosulfan I [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endosulfan II [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endosulfan sulfate [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endrin [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endrin aldehyde [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Endrin ketone [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Heptachlor [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Heptachlor epoxide [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Hexachlorobenzene [1]	ND	0.073	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Methoxychlor [1]	ND	0.61	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Toxaphene [1]	ND	1.2	mg/Kg dry	10		SW-846 8081B	11/7/18	11/10/18 0:46	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		131	30-150				11/10/18	0:46	
Decachlorobiphenyl [2]		111	30-150				11/10/18	0:46	
Tetrachloro-m-xylene [1]		88.7	30-150				11/10/18	0:46	
Tetrachloro-m-xylene [2]		81.2	30-150				11/10/18	0:46	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP33

Sampled: 11/1/2018 13:30

Sample ID: 18K0278-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:01	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.5	30-150					11/8/18 16:01	
Decachlorobiphenyl [2]		103	30-150					11/8/18 16:01	
Tetrachloro-m-xylene [1]		98.2	30-150					11/8/18 16:01	
Tetrachloro-m-xylene [2]		87.0	30-150					11/8/18 16:01	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/1/2018 13:30

Field Sample #: MP33

Sample ID: 18K0278-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
2,4-DB [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
2,4,5-TP (Silvex) [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
2,4,5-T [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
Dalapon [1]	ND	78	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
Dicamba [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
Dichloroprop [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
Dinoseb [1]	ND	16	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 9:23	TG
MCPA [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
MCPA [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 9:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		80.3	30-150					11/10/18 9:23	
2,4-Dichlorophenylacetic acid [2]		86.0	30-150					11/10/18 9:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/1/2018 13:30

Field Sample #: MP33

Sample ID: 18K0278-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	360	100	mg/Kg dry	10		SW-846 8100 Modified	11/7/18	11/8/18 15:16	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		64.5	40-140					11/8/18 15:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/1/2018 13:30

Field Sample #: MP33

Sample ID: 18K0278-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Arsenic	5.0	2.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Barium	16	2.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Beryllium	ND	0.21	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Chromium	8.2	0.42	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Lead	7.3	0.63	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:02	EJB
Nickel	4.7	0.42	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Vanadium	9.4	0.84	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW
Zinc	9.1	0.84	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:09	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/1/2018 13:30

Field Sample #: MP33

Sample ID: 18K0278-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.4°C	5.9		pH Units	1	H-03	SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	3.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	78.6		% Wt	1		SM 2540G	11/12/18	11/13/18 10:28	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Bromomethane	ND	0.0080	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 13:42	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Chlorodibromomethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Chloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Chloromethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,3-Dichloropropane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
cis-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
trans-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Diethyl Ether	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Diisopropyl Ether (DIPE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,4-Dioxane	ND	0.080	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Methylene Chloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Tetrahydrofuran	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
Vinyl Chloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 13:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	11/8/18 13:42
Toluene-d8	99.5	70-130	11/8/18 13:42
4-Bromofluorobenzene	97.5	70-130	11/8/18 13:42

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
Pyridine	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 18:39	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 18:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	64.0	30-130	
Phenol-d6	72.5	30-130	
Nitrobenzene-d5	71.6	30-130	
2-Fluorobiphenyl	68.1	30-130	
2,4,6-Tribromophenol	105	30-130	
p-Terphenyl-d14	86.4	30-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:13	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					11/10/18 1:13	
Decachlorobiphenyl [2]		103	30-150					11/10/18 1:13	
Tetrachloro-m-xylene [1]		113	30-150					11/10/18 1:13	
Tetrachloro-m-xylene [2]		106	30-150					11/10/18 1:13	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 16:19	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					11/8/18 16:19	
Decachlorobiphenyl [2]		99.4	30-150					11/8/18 16:19	
Tetrachloro-m-xylene [1]		100	30-150					11/8/18 16:19	
Tetrachloro-m-xylene [2]		92.5	30-150					11/8/18 16:19	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
2,4-DB [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
Dalapon [1]	ND	70	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
Dinoseb [1]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 10:03	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:03	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		85.6	30-150					11/10/18 10:03	
2,4-Dichlorophenylacetic acid [2]		84.1	30-150					11/10/18 10:03	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	20	9.1	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 13:16	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		64.9	40-140					11/8/18 13:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP27

Sampled: 11/5/2018 11:00

Sample ID: 18K0278-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Arsenic	7.3	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Barium	16	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Cadmium	0.26	0.19	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Chromium	7.4	0.37	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Lead	5.2	0.56	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:04	EJB
Nickel	4.4	0.37	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Vanadium	8.9	0.75	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW
Zinc	9.5	0.75	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:14	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 11:00

Field Sample #: MP27

Sample ID: 18K0278-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.2°C	5.2		pH Units	1	H-03	SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	2.2	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	89.1		% Wt	1		SM 2540G	11/12/18	11/13/18 10:29	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Bromomethane	ND	0.0074	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 14:06	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Chlorodibromomethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Chloroethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Chloromethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,3-Dichloropropane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
cis-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
trans-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Diethyl Ether	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Diisopropyl Ether (DIPE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,4-Dioxane	ND	0.074	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Methylene Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Tetrahydrofuran	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
Vinyl Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.1	70-130	11/8/18 14:06
Toluene-d8	98.6	70-130	11/8/18 14:06
4-Bromofluorobenzene	96.7	70-130	11/8/18 14:06

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
4-Chloroaniline	ND	0.76	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Pyridine	ND	0.39	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 19:06	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:06	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		67.0	30-130					11/9/18 19:06	
Phenol-d6		73.7	30-130					11/9/18 19:06	
Nitrobenzene-d5		67.6	30-130					11/9/18 19:06	
2-Fluorobiphenyl		70.8	30-130					11/9/18 19:06	
2,4,6-Tribromophenol		107	30-130					11/9/18 19:06	
p-Terphenyl-d14		83.9	30-130					11/9/18 19:06	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endosulfan II [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endosulfan sulfate [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endrin [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endrin aldehyde [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Endrin ketone [1]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 1:40	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.0	30-150					11/10/18 1:40	
Decachlorobiphenyl [2]		91.6	30-150					11/10/18 1:40	
Tetrachloro-m-xylene [1]		94.6	30-150					11/10/18 1:40	
Tetrachloro-m-xylene [2]		84.7	30-150					11/10/18 1:40	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP28

Sampled: 11/5/2018 12:05

Sample ID: 18K0278-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:23	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					11/8/18 17:23	
Decachlorobiphenyl [2]		103	30-150					11/8/18 17:23	
Tetrachloro-m-xylene [1]		101	30-150					11/8/18 17:23	
Tetrachloro-m-xylene [2]		93.2	30-150					11/8/18 17:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0278-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
2,4-DB [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
Dalapon [1]	ND	72	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
Dinoseb [1]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 10:43	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 10:43	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	85.3	30-150						11/10/18 10:43	
2,4-Dichlorophenylacetic acid [2]	83.7	30-150						11/10/18 10:43	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0278-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	32	9.6	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 13:36	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		64.0	40-140					11/8/18 13:36	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0278-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Arsenic	3.6	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Barium	21	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Chromium	7.0	0.38	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Lead	6.0	0.58	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:05	EJB
Nickel	4.0	0.38	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Vanadium	9.9	0.77	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW
Zinc	7.8	0.77	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:19	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 12:05

Field Sample #: MP28

Sample ID: 18K0278-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.1°C	5.5		pH Units	1	H-03	SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	2.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	86.3		% Wt	1		SM 2540G	11/12/18	11/13/18 10:29	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 14:31	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Chloroethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Diethyl Ether	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Diisopropyl Ether (DIPE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,4-Dioxane	ND	0.072	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Methylene Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.6	70-130	11/8/18 14:31
Toluene-d8	100	70-130	11/8/18 14:31
4-Bromofluorobenzene	97.8	70-130	11/8/18 14:31

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Aniline	ND	0.36	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
Pyridine	ND	0.36	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 19:33	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 19:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	73.0	30-130	
Phenol-d6	84.6	30-130	
Nitrobenzene-d5	87.3	30-130	
2-Fluorobiphenyl	76.7	30-130	
2,4,6-Tribromophenol	116	30-130	
p-Terphenyl-d14	92.8	30-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endosulfan II [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endosulfan sulfate [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endrin [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endrin aldehyde [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Endrin ketone [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:07	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		106	30-150					11/10/18 2:07	
Decachlorobiphenyl [2]		104	30-150					11/10/18 2:07	
Tetrachloro-m-xylene [1]		113	30-150					11/10/18 2:07	
Tetrachloro-m-xylene [2]		110	30-150					11/10/18 2:07	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP29

Sampled: 11/5/2018 13:15

Sample ID: 18K0278-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:40	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					11/8/18 17:40	
Decachlorobiphenyl [2]		101	30-150					11/8/18 17:40	
Tetrachloro-m-xylene [1]		103	30-150					11/8/18 17:40	
Tetrachloro-m-xylene [2]		95.6	30-150					11/8/18 17:40	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0278-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
Dinoseb [1]	ND	13	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 11:24	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 11:24	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	79.6	30-150					11/10/18	11:24	
2,4-Dichlorophenylacetic acid [2]	79.5	30-150					11/10/18	11:24	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0278-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12	9.0	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 13:56	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.1	40-140					11/8/18 13:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0278-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Arsenic	5.0	1.8	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Barium	19	1.8	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Cadmium	0.20	0.18	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Chromium	11	0.36	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Lead	3.6	0.54	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:11	EJB
Nickel	6.1	0.36	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Vanadium	13	0.72	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW
Zinc	12	0.72	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:24	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/5/2018 13:15

Field Sample #: MP29

Sample ID: 18K0278-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.3°C	5.1		pH Units	1	H-03	SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	2.6	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	92.6		% Wt	1		SM 2540G	11/12/18	11/13/18 10:29	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0278-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Benzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Bromobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Bromochloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Bromodichloromethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Bromoform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Bromomethane	ND	0.0088	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 14:55	MFF
2-Butanone (MEK)	ND	0.035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
n-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
sec-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
tert-Butylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Carbon Disulfide	ND	0.0053	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Chlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Chlorodibromomethane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Chloroethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Chloroform	ND	0.0035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Chloromethane	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
2-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
4-Chlorotoluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2-Dibromoethane (EDB)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Dibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,3-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,4-Dichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2-Dichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
cis-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
trans-1,2-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,3-Dichloropropane	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
2,2-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
cis-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
trans-1,3-Dichloropropene	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Diethyl Ether	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Diisopropyl Ether (DIPE)	ND	0.00088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,4-Dioxane	ND	0.088	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Ethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP30

Sampled: 11/6/2018 08:50

Sample ID: 18K0278-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
2-Hexanone (MBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Isopropylbenzene (Cumene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Methylene Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Naphthalene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Tetrachloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Tetrahydrofuran	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Toluene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2,3-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2,4-Trichlorobenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1,1-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,1,2-Trichloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Trichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2,3-Trichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,2,4-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
Vinyl Chloride	ND	0.0088	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
m+p Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF
o-Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 14:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.0	70-130	11/8/18 14:55
Toluene-d8	98.1	70-130	11/8/18 14:55
4-Bromofluorobenzene	99.8	70-130	11/8/18 14:55

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP30

Sampled: 11/6/2018 08:50

Sample ID: 18K0278-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP30

Sampled: 11/6/2018 08:50

Sample ID: 18K0278-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Pyridine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 20:00	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:00	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		73.4	30-130					11/9/18 20:00	
Phenol-d6		87.7	30-130					11/9/18 20:00	
Nitrobenzene-d5		89.7	30-130					11/9/18 20:00	
2-Fluorobiphenyl		73.7	30-130					11/9/18 20:00	
2,4,6-Tribromophenol		111	30-130					11/9/18 20:00	
p-Terphenyl-d14		86.2	30-130					11/9/18 20:00	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP30

Sampled: 11/6/2018 08:50

Sample ID: 18K0278-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endosulfan II [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endosulfan sulfate [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endrin [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endrin aldehyde [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Endrin ketone [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Hexachlorobenzene [1]	ND	0.0071	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Methoxychlor [1]	ND	0.059	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 2:34	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.6	30-150					11/10/18 2:34	
Decachlorobiphenyl [2]		88.6	30-150					11/10/18 2:34	
Tetrachloro-m-xylene [1]		98.3	30-150					11/10/18 2:34	
Tetrachloro-m-xylene [2]		95.4	30-150					11/10/18 2:34	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP30

Sampled: 11/6/2018 08:50

Sample ID: 18K0278-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 17:57	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		98.3	30-150					11/8/18 17:57	
Decachlorobiphenyl [2]		95.4	30-150					11/8/18 17:57	
Tetrachloro-m-xylene [1]		91.9	30-150					11/8/18 17:57	
Tetrachloro-m-xylene [2]		83.9	30-150					11/8/18 17:57	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0278-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
Dinoseb [1]	ND	15	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 12:04	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:04	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	82.1	30-150						11/10/18 12:04	
2,4-Dichlorophenylacetic acid [2]	87.7	30-150						11/10/18 12:04	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0278-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	26	10	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 14:16	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		64.9	40-140					11/8/18 14:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0278-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Arsenic	9.3	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Barium	19	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Beryllium	0.27	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Cadmium	0.34	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Chromium	11	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Lead	7.4	0.61	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:13	EJB
Nickel	5.8	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Vanadium	15	0.81	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW
Zinc	14	0.81	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:29	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 08:50

Field Sample #: MP30

Sample ID: 18K0278-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.4°C	4.6		pH Units	1		SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	3.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	82.0		% Wt	1		SM 2540G	11/12/18	11/13/18 10:29	MJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP31

Sampled: 11/6/2018 10:05

Sample ID: 18K0278-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 15:20	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Chloroethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
trans-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Diethyl Ether	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Diisopropyl Ether (DIPE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,4-Dioxane	ND	0.095	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP31

Sampled: 11/6/2018 10:05

Sample ID: 18K0278-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Methylene Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	11/8/18 15:20
Toluene-d8	96.5	70-130	11/8/18 15:20
4-Bromofluorobenzene	96.2	70-130	11/8/18 15:20

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP31

Sampled: 11/6/2018 10:05

Sample ID: 18K0278-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
4-Chloroaniline	ND	0.80	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
Pyridine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 20:27	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	74.7	30-130	
Phenol-d6	83.0	30-130	
Nitrobenzene-d5	78.4	30-130	
2-Fluorobiphenyl	64.7	30-130	
2,4,6-Tribromophenol	97.4	30-130	
p-Terphenyl-d14	76.9	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:01	TG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 9:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.0	30-150				11/10/18	9:56	
Decachlorobiphenyl [2]		79.5	30-150				11/10/18	9:56	
Tetrachloro-m-xylene [1]		80.4	30-150				11/10/18	9:56	
Tetrachloro-m-xylene [2]		70.8	30-150				11/10/18	9:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP31

Sampled: 11/6/2018 10:05

Sample ID: 18K0278-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:14	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.5	30-150					11/8/18 18:14	
Decachlorobiphenyl [2]		95.3	30-150					11/8/18 18:14	
Tetrachloro-m-xylene [1]		86.2	30-150					11/8/18 18:14	
Tetrachloro-m-xylene [2]		79.8	30-150					11/8/18 18:14	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
Dalapon [1]	ND	76	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
Dinoseb [1]	ND	15	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 12:44	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 12:44	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	83.6	30-150						11/10/18 12:44	
2,4-Dichlorophenylacetic acid [2]	99.2	30-150						11/10/18 12:44	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	18	10	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 14:36	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		63.2	40-140					11/8/18 14:36	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Arsenic	3.2	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Barium	17	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Chromium	6.9	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Lead	13	0.61	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:14	EJB
Nickel	5.4	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Vanadium	7.8	0.81	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW
Zinc	57	0.81	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:34	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 10:05

Field Sample #: MP31

Sample ID: 18K0278-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20°C	5.3		pH Units	1		SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	3.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	81.6		% Wt	1		SM 2540G	11/12/18	11/13/18 10:29	MJR

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Bromomethane	ND	0.0071	mg/Kg dry	1	V-34	SW-846 8260C	11/8/18	11/8/18 15:45	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Chlorodibromomethane	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Chloroethane	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Chloromethane	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2-Dibromoethane (EDB)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,3-Dichloropropane	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
cis-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
trans-1,3-Dichloropropene	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Diethyl Ether	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Diisopropyl Ether (DIPE)	ND	0.00071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,4-Dioxane	ND	0.071	mg/Kg dry	1	V-16	SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Methylene Chloride	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Tetrahydrofuran	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
Vinyl Chloride	ND	0.0071	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/8/18	11/8/18 15:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.0	70-130	11/8/18 15:45
Toluene-d8	98.9	70-130	11/8/18 15:45
4-Bromofluorobenzene	98.8	70-130	11/8/18 15:45

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1	V-34	SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-19	SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	11/7/18	11/9/18 20:54	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/7/18	11/9/18 20:54	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		73.2	30-130					11/9/18 20:54	
Phenol-d6		83.2	30-130					11/9/18 20:54	
Nitrobenzene-d5		84.1	30-130					11/9/18 20:54	
2-Fluorobiphenyl		69.7	30-130					11/9/18 20:54	
2,4,6-Tribromophenol		103	30-130					11/9/18 20:54	
p-Terphenyl-d14		79.8	30-130					11/9/18 20:54	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endosulfan II [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endosulfan sulfate [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endrin [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endrin aldehyde [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Endrin ketone [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/7/18	11/10/18 3:28	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.5	30-150					11/10/18 3:28	
Decachlorobiphenyl [2]		95.4	30-150					11/10/18 3:28	
Tetrachloro-m-xylene [1]		97.0	30-150					11/10/18 3:28	
Tetrachloro-m-xylene [2]		85.0	30-150					11/10/18 3:28	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Field Sample #: MP35

Sampled: 11/6/2018 12:00

Sample ID: 18K0278-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/7/18	11/8/18 18:32	AYH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					11/8/18 18:32	
Decachlorobiphenyl [2]		111	30-150					11/8/18 18:32	
Tetrachloro-m-xylene [1]		102	30-150					11/8/18 18:32	
Tetrachloro-m-xylene [2]		94.7	30-150					11/8/18 18:32	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 12:00

Field Sample #: MP35

Sample ID: 18K0278-07

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
2,4-DB [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
Dinoseb [1]	ND	15	µg/kg dry	1	V-20	SW-846 8151A	11/8/18	11/10/18 14:29	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	11/8/18	11/10/18 14:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		71.5	30-150					11/10/18 14:29	
2,4-Dichlorophenylacetic acid [2]		70.2	30-150					11/10/18 14:29	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 12:00

Field Sample #: MP35

Sample ID: 18K0278-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	21	9.7	mg/Kg dry	1		SW-846 8100 Modified	11/7/18	11/8/18 14:56	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.0	40-140					11/8/18 14:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 12:00

Field Sample #: MP35

Sample ID: 18K0278-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Arsenic	5.9	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Barium	36	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Beryllium	0.41	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Cadmium	0.26	0.20	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Chromium	16	0.39	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Lead	10	0.59	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	11/8/18	11/8/18 16:16	EJB
Nickel	12	0.39	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Vanadium	21	0.78	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW
Zinc	22	0.78	mg/Kg dry	1		SW-846 6010D	11/8/18	11/9/18 14:43	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0278

Date Received: 11/6/2018

Sampled: 11/6/2018 12:00

Field Sample #: MP35

Sample ID: 18K0278-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/7/18	11/7/18 14:47	LED
pH @20.4°C	5.5		pH Units	1		SW-846 9045C	11/6/18	11/6/18 22:41	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/8/18	11/12/18 13:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/8/18	11/12/18 12:15	DJM
Specific conductance	2.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/9/18	11/9/18 15:50	EC
% Solids	83.4		% Wt	1		SM 2540G	11/12/18	11/13/18 10:30	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0278-01 [MP33]	B217033	11/12/18
18K0278-02 [MP27]	B217033	11/12/18
18K0278-03 [MP28]	B217033	11/12/18
18K0278-04 [MP29]	B217033	11/12/18
18K0278-05 [MP30]	B217033	11/12/18
18K0278-06 [MP31]	B217033	11/12/18
18K0278-07 [MP35]	B217033	11/12/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0278-01 [MP33]	B216817	1.00	11/09/18
18K0278-02 [MP27]	B216817	1.00	11/09/18
18K0278-03 [MP28]	B216817	1.00	11/09/18
18K0278-04 [MP29]	B216817	1.00	11/09/18
18K0278-05 [MP30]	B216817	1.00	11/09/18
18K0278-06 [MP31]	B216817	1.00	11/09/18
18K0278-07 [MP35]	B216817	1.00	11/09/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0278-01 [MP33]	B216677	50.0	11/07/18
18K0278-02 [MP27]	B216677	50.0	11/07/18
18K0278-03 [MP28]	B216677	50.0	11/07/18
18K0278-04 [MP29]	B216677	50.0	11/07/18
18K0278-05 [MP30]	B216677	50.0	11/07/18
18K0278-06 [MP31]	B216677	50.0	11/07/18
18K0278-07 [MP35]	B216677	50.0	11/07/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216743	1.51	50.0	11/08/18
18K0278-02 [MP27]	B216743	1.50	50.0	11/08/18
18K0278-03 [MP28]	B216743	1.51	50.0	11/08/18
18K0278-04 [MP29]	B216743	1.50	50.0	11/08/18
18K0278-05 [MP30]	B216743	1.50	50.0	11/08/18
18K0278-06 [MP31]	B216743	1.51	50.0	11/08/18
18K0278-07 [MP35]	B216743	1.54	50.0	11/08/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216703	0.638	50.0	11/08/18
18K0278-02 [MP27]	B216703	0.572	50.0	11/08/18
18K0278-03 [MP28]	B216703	0.606	50.0	11/08/18
18K0278-04 [MP29]	B216703	0.616	50.0	11/08/18
18K0278-05 [MP30]	B216703	0.616	50.0	11/08/18
18K0278-06 [MP31]	B216703	0.587	50.0	11/08/18

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-07 [MP35]	B216703	0.602	50.0	11/08/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216575	10.5	10.0	11/07/18
18K0278-02 [MP27]	B216575	10.4	10.0	11/07/18
18K0278-03 [MP28]	B216575	10.6	10.0	11/07/18
18K0278-04 [MP29]	B216575	10.3	10.0	11/07/18
18K0278-05 [MP30]	B216575	10.3	10.0	11/07/18
18K0278-06 [MP31]	B216575	10.9	10.0	11/07/18
18K0278-07 [MP35]	B216575	10.8	10.0	11/07/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216574	10.5	10.0	11/07/18
18K0278-02 [MP27]	B216574	10.4	10.0	11/07/18
18K0278-03 [MP28]	B216574	10.6	10.0	11/07/18
18K0278-04 [MP29]	B216574	10.3	10.0	11/07/18
18K0278-05 [MP30]	B216574	10.3	10.0	11/07/18
18K0278-06 [MP31]	B216574	10.9	10.0	11/07/18
18K0278-07 [MP35]	B216574	10.8	10.0	11/07/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216634	30.7	1.00	11/07/18
18K0278-02 [MP27]	B216634	30.9	1.00	11/07/18
18K0278-03 [MP28]	B216634	30.3	1.00	11/07/18
18K0278-04 [MP29]	B216634	30.1	1.00	11/07/18
18K0278-05 [MP30]	B216634	30.1	1.00	11/07/18
18K0278-06 [MP31]	B216634	30.2	1.00	11/07/18
18K0278-07 [MP35]	B216634	30.9	1.00	11/07/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216689	20.3	5.00	11/08/18
18K0278-02 [MP27]	B216689	20.1	5.00	11/08/18
18K0278-03 [MP28]	B216689	20.0	5.00	11/08/18
18K0278-04 [MP29]	B216689	20.0	5.00	11/08/18
18K0278-05 [MP30]	B216689	20.3	5.00	11/08/18
18K0278-06 [MP31]	B216689	20.1	5.00	11/08/18
18K0278-07 [MP35]	B216689	20.1	5.00	11/08/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216709	13.0	10.0	11/08/18
18K0278-02 [MP27]	B216709	7.00	10.0	11/08/18
18K0278-03 [MP28]	B216709	7.88	10.0	11/08/18
18K0278-04 [MP29]	B216709	7.53	10.0	11/08/18
18K0278-05 [MP30]	B216709	6.90	10.0	11/08/18
18K0278-06 [MP31]	B216709	6.45	10.0	11/08/18
18K0278-07 [MP35]	B216709	8.41	10.0	11/08/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216591	30.1	1.00	11/07/18
18K0278-01RE1 [MP33]	B216591	30.1	1.00	11/07/18
18K0278-02 [MP27]	B216591	30.6	1.00	11/07/18
18K0278-03 [MP28]	B216591	30.1	1.00	11/07/18
18K0278-04 [MP29]	B216591	30.9	1.00	11/07/18
18K0278-05 [MP30]	B216591	30.5	1.00	11/07/18
18K0278-06 [MP31]	B216591	30.3	1.00	11/07/18
18K0278-07 [MP35]	B216591	30.8	1.00	11/07/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216769	25.6	250	11/08/18
18K0278-02 [MP27]	B216769	25.8	250	11/08/18
18K0278-03 [MP28]	B216769	25.7	250	11/08/18
18K0278-04 [MP29]	B216769	25.8	250	11/08/18
18K0278-05 [MP30]	B216769	25.9	250	11/08/18
18K0278-06 [MP31]	B216769	25.5	250	11/08/18
18K0278-07 [MP35]	B216769	25.3	250	11/08/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0278-01 [MP33]	B216984	25.6	250	11/08/18
18K0278-02 [MP27]	B216984	25.8	250	11/08/18
18K0278-03 [MP28]	B216984	25.7	250	11/08/18
18K0278-04 [MP29]	B216984	25.8	250	11/08/18
18K0278-05 [MP30]	B216984	25.9	250	11/08/18
18K0278-06 [MP31]	B216984	25.5	250	11/08/18
18K0278-07 [MP35]	B216984	25.3	250	11/08/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0278-01 [MP33]	B216565	20.0	11/06/18
18K0278-02 [MP27]	B216565	20.0	11/06/18
18K0278-03 [MP28]	B216565	20.0	11/06/18
18K0278-04 [MP29]	B216565	20.0	11/06/18
18K0278-05 [MP30]	B216565	20.0	11/06/18

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Sample Extraction Data

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0278-06 [MP31]	B216565	20.0	11/06/18
18K0278-07 [MP35]	B216565	20.0	11/06/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216709 - SW-846 5035

Blank (B216709-BLK1)

Prepared & Analyzed: 11/08/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216709 - SW-846 5035

Blank (B216709-BLK1)

Prepared & Analyzed: 11/08/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0491		mg/Kg wet	0.0500		98.2	70-130			

LCS (B216709-BS1)

Prepared & Analyzed: 11/08/18

Acetone	0.310	0.10	mg/Kg wet	0.200		155	40-160		L-14	†
tert-Amyl Methyl Ether (TAME)	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130			
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromodichloromethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Bromoform	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
Bromomethane	0.0112	0.010	mg/Kg wet	0.0200		56.0	40-160		L-14, V-34	†
2-Butanone (MEK)	0.261	0.040	mg/Kg wet	0.200		130	40-160			†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
sec-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130			
Carbon Disulfide	0.0208	0.0060	mg/Kg wet	0.0200		104	70-130			
Carbon Tetrachloride	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Chlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Chloroethane	0.0195	0.010	mg/Kg wet	0.0200		97.6	70-130			
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		98.2	70-130			
Chloromethane	0.0205	0.010	mg/Kg wet	0.0200		102	40-160			†
2-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
4-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2-Dibromoethane (EDB)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216709 - SW-846 5035										
LCS (B216709-BS1)										
				Prepared & Analyzed: 11/08/18						
Dichlorodifluoromethane (Freon 12)	0.0192	0.010	mg/Kg wet	0.0200		95.8	40-160			†
1,1-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1-Dichloroethylene	0.0200	0.0040	mg/Kg wet	0.0200		100	70-130			
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
trans-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
2,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
cis-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130			
trans-1,3-Dichloropropene	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Diethyl Ether	0.0193	0.010	mg/Kg wet	0.0200		96.7	70-130			
Diisopropyl Ether (DIPE)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
1,4-Dioxane	0.200	0.10	mg/Kg wet	0.200		100	40-160			V-16 †
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
Hexachlorobutadiene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
2-Hexanone (MBK)	0.231	0.020	mg/Kg wet	0.200		116	40-160			†
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
p-Isopropyltoluene (p-Cymene)	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130			
Methylene Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.4	70-130			
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	40-160			†
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.6	70-130			
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Styrene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.7	70-130			
Tetrachloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Tetrahydrofuran	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,2,4-Trichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Trichlorofluoromethane (Freon 11)	0.0184	0.010	mg/Kg wet	0.0200		92.0	70-130			
1,2,3-Trichloropropane	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.0	70-130			
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.8	70-130			
o-Xylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216709 - SW-846 5035										
LCS Dup (B216709-BSD1)										
Prepared & Analyzed: 11/08/18										
Acetone	0.269	0.10	mg/Kg wet	0.200		134	40-160	14.1	20	L-14 †
tert-Amyl Methyl Ether (TAME)	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	6.36	20	
Benzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.42	20	
Bromobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	11.1	20	
Bromochloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.37	20	
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	6.45	20	
Bromoform	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	7.44	20	
Bromomethane	0.0128	0.010	mg/Kg wet	0.0200		63.8	40-160	13.1	20	L-14, V-34 †
2-Butanone (MEK)	0.253	0.040	mg/Kg wet	0.200		127	40-160	2.78	20	†
n-Butylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	13.1	20	
sec-Butylbenzene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130	14.9	20	
tert-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	14.5	20	
tert-Butyl Ethyl Ether (TBEE)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	5.69	20	
Carbon Disulfide	0.0208	0.0060	mg/Kg wet	0.0200		104	70-130	0.0770	20	
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	6.00	20	
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	11.6	20	
Chlorodibromomethane	0.0229	0.0010	mg/Kg wet	0.0200		114	70-130	9.15	20	
Chloroethane	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	7.97	20	
Chloroform	0.0209	0.0040	mg/Kg wet	0.0200		105	70-130	6.23	20	
Chloromethane	0.0198	0.010	mg/Kg wet	0.0200		99.1	40-160	3.30	20	†
2-Chlorotoluene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	11.4	20	
4-Chlorotoluene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	9.68	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	10.2	20	
1,2-Dibromoethane (EDB)	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	9.89	20	
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.89	20	
1,2-Dichlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	14.6	20	
1,3-Dichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	13.8	20	
1,4-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	11.4	20	
Dichlorodifluoromethane (Freon 12)	0.0201	0.010	mg/Kg wet	0.0200		101	40-160	4.96	20	†
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	7.26	20	
1,2-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	5.70	20	
1,1-Dichloroethylene	0.0211	0.0040	mg/Kg wet	0.0200		105	70-130	5.09	20	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	4.70	20	
trans-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	4.91	20	
1,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	8.14	20	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	5.26	20	
2,2-Dichloropropane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	8.32	20	
1,1-Dichloropropene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.53	20	
cis-1,3-Dichloropropene	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	7.04	20	
trans-1,3-Dichloropropene	0.0232	0.0010	mg/Kg wet	0.0200		116	70-130	8.91	20	
Diethyl Ether	0.0198	0.010	mg/Kg wet	0.0200		99.2	70-130	2.59	20	
Diisopropyl Ether (DIPE)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	5.82	20	
1,4-Dioxane	0.187	0.10	mg/Kg wet	0.200		93.4	40-160	6.84	20	V-16 †
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	9.76	20	
Hexachlorobutadiene	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130	17.5	20	
2-Hexanone (MBK)	0.241	0.020	mg/Kg wet	0.200		121	40-160	4.08	20	†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	10.7	20	
p-Isopropyltoluene (p-Cymene)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	12.0	20	
Methyl tert-Butyl Ether (MTBE)	0.0232	0.0040	mg/Kg wet	0.0200		116	70-130	4.23	20	
Methylene Chloride	0.0187	0.010	mg/Kg wet	0.0200		93.6	70-130	8.00	20	
4-Methyl-2-pentanone (MIBK)	0.224	0.020	mg/Kg wet	0.200		112	40-160	7.33	20	†
Naphthalene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	17.0	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216709 - SW-846 5035										
LCS Dup (B216709-BSD1)										
Prepared & Analyzed: 11/08/18										
n-Propylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	10.9	20	
Styrene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	12.7	20	
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	7.88	20	
1,1,2,2-Tetrachloroethane	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	15.5	20	
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.86	20	
Tetrahydrofuran	0.0190	0.010	mg/Kg wet	0.0200		95.0	70-130	1.57	20	
Toluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	7.08	20	
1,2,3-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	14.3	20	
1,2,4-Trichlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	18.9	20	
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	7.28	20	
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	6.31	20	
Trichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.35	20	
Trichlorofluoromethane (Freon 11)	0.0186	0.010	mg/Kg wet	0.0200		92.9	70-130	0.995	20	
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	14.2	20	
1,2,4-Trimethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	14.4	20	
1,3,5-Trimethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	11.7	20	
Vinyl Chloride	0.0197	0.010	mg/Kg wet	0.0200		98.5	70-130	4.76	20	
m+p Xylene	0.0439	0.0040	mg/Kg wet	0.0400		110	70-130	9.46	20	
o-Xylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.0495		mg/Kg wet	0.0500		98.9	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216591 - SW-846 3546

Blank (B216591-BLK1)

Prepared: 11/07/18 Analyzed: 11/08/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05, V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216591 - SW-846 3546										
Blank (B216591-BLK1)										
Prepared: 11/07/18 Analyzed: 11/08/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.23		mg/Kg wet	6.67		78.4	30-130			
Surrogate: Phenol-d6	5.95		mg/Kg wet	6.67		89.2	30-130			
Surrogate: Nitrobenzene-d5	2.83		mg/Kg wet	3.33		84.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.4	30-130			
Surrogate: 2,4,6-Tribromophenol	7.41		mg/Kg wet	6.67		111	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.33		90.0	30-130			
LCS (B216591-BS1)										
Prepared: 11/07/18 Analyzed: 11/08/18										
Acenaphthene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140			
Acenaphthylene	1.40	0.17	mg/Kg wet	1.67		83.8	40-140			
Acetophenone	1.31	0.34	mg/Kg wet	1.67		78.9	40-140			
Aniline	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			V-34, V-05
Anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Benzo(a)anthracene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Benzo(g,h,i)perylene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140			
Benzo(k)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
Bis(2-chloroethoxy)methane	1.42	0.34	mg/Kg wet	1.67		85.4	40-140			
Bis(2-chloroethyl)ether	1.34	0.34	mg/Kg wet	1.67		80.4	40-140			
Bis(2-chloroisopropyl)ether	1.56	0.34	mg/Kg wet	1.67		93.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.42	0.34	mg/Kg wet	1.67		85.0	40-140			
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.2	40-140			
Butylbenzylphthalate	1.38	0.34	mg/Kg wet	1.67		83.0	40-140			
4-Chloroaniline	1.17	0.66	mg/Kg wet	1.67		70.1	15-140			V-34 †
2-Chloronaphthalene	1.31	0.34	mg/Kg wet	1.67		78.6	40-140			
2-Chlorophenol	1.21	0.34	mg/Kg wet	1.67		72.6	30-130			
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140			
Dibenz(a,h)anthracene	1.38	0.17	mg/Kg wet	1.67		83.0	40-140			
Dibenzofuran	1.44	0.34	mg/Kg wet	1.67		86.3	40-140			
Di-n-butylphthalate	1.33	0.34	mg/Kg wet	1.67		79.9	40-140			
1,2-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
1,3-Dichlorobenzene	0.940	0.34	mg/Kg wet	1.67		56.4	40-140			
1,4-Dichlorobenzene	0.956	0.34	mg/Kg wet	1.67		57.4	40-140			
3,3-Dichlorobenzidine	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
2,4-Dichlorophenol	1.32	0.34	mg/Kg wet	1.67		79.5	30-130			
Diethylphthalate	1.45	0.34	mg/Kg wet	1.67		87.2	40-140			
2,4-Dimethylphenol	1.21	0.34	mg/Kg wet	1.67		72.5	30-130			
Dimethylphthalate	1.50	0.34	mg/Kg wet	1.67		89.8	40-140			
2,4-Dinitrophenol	1.28	0.66	mg/Kg wet	1.67		76.9	15-140			V-19 †
2,4-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		92.8	40-140			
2,6-Dinitrotoluene	1.61	0.34	mg/Kg wet	1.67		96.9	40-140			
Di-n-octylphthalate	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.40	0.34	mg/Kg wet	1.67		84.2	40-140			
Fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140			
Fluorene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216591 - SW-846 3546

LCS (B216591-BS1)

Prepared: 11/07/18 Analyzed: 11/08/18

Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.2	40-140			
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.4	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140			
Isophorone	1.38	0.34	mg/Kg wet	1.67		82.7	40-140			
2-Methylnaphthalene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.5	30-130			
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.4	30-130			
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Nitrobenzene	1.31	0.34	mg/Kg wet	1.67		78.6	40-140			
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
4-Nitrophenol	1.81	0.66	mg/Kg wet	1.67		108	15-140			V-06 †
Pentachlorophenol	0.965	0.34	mg/Kg wet	1.67		57.9	30-130			
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Phenol	1.31	0.34	mg/Kg wet	1.67		78.4	15-140			†
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Pyridine	0.586	0.34	mg/Kg wet	1.67		35.2	30-140			V-05 †
1,2,4-Trichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.7	40-140			
2,4,5-Trichlorophenol	1.46	0.34	mg/Kg wet	1.67		87.5	30-130			
2,4,6-Trichlorophenol	1.44	0.34	mg/Kg wet	1.67		86.2	30-130			
Surrogate: 2-Fluorophenol	4.83		mg/Kg wet	6.67		72.4	30-130			
Surrogate: Phenol-d6	5.74		mg/Kg wet	6.67		86.0	30-130			
Surrogate: Nitrobenzene-d5	2.78		mg/Kg wet	3.33		83.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.52		mg/Kg wet	3.33		75.7	30-130			
Surrogate: 2,4,6-Tribromophenol	7.12		mg/Kg wet	6.67		107	30-130			
Surrogate: p-Terphenyl-d14	2.69		mg/Kg wet	3.33		80.8	30-130			

LCS Dup (B216591-BS1)

Prepared: 11/07/18 Analyzed: 11/08/18

Acenaphthene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	0.0770	30	
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140	0.383	30	
Acetophenone	1.31	0.34	mg/Kg wet	1.67		78.9	40-140	0.00	30	
Aniline	1.06	0.34	mg/Kg wet	1.67		63.3	40-140	7.74	30	V-05, V-34
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	1.41	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	0.839	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg wet	1.67		80.1	40-140	1.29	30	
Benzo(b)fluoranthene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140	2.66	30	
Benzo(g,h,i)perylene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	0.217	30	
Benzo(k)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	1.39	30	
Bis(2-chloroethoxy)methane	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	2.11	30	
Bis(2-chloroethyl)ether	1.40	0.34	mg/Kg wet	1.67		83.7	40-140	4.02	30	
Bis(2-chloroisopropyl)ether	1.64	0.34	mg/Kg wet	1.67		98.7	40-140	5.07	30	
Bis(2-Ethylhexyl)phthalate	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	4.94	30	
4-Bromophenylphenylether	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	2.77	30	V-34
Butylbenzylphthalate	1.38	0.34	mg/Kg wet	1.67		82.8	40-140	0.265	30	
4-Chloroaniline	0.872	0.66	mg/Kg wet	1.67		52.3	15-140	29.0	30	V-34 †
2-Chloronaphthalene	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	0.609	30	
2-Chlorophenol	1.22	0.34	mg/Kg wet	1.67		73.3	30-130	0.932	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	0.933	30	
Dibenz(a,h)anthracene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140	1.07	30	
Dibenzofuran	1.44	0.34	mg/Kg wet	1.67		86.6	40-140	0.347	30	
Di-n-butylphthalate	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	2.54	30	
1,2-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	7.41	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216591 - SW-846 3546

LCS Dup (B216591-BSD1)

Prepared: 11/07/18 Analyzed: 11/08/18

1,3-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.2	40-140	9.72	30	
1,4-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		63.0	40-140	9.37	30	
3,3-Dichlorobenzidine	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	20.5	30	
2,4-Dichlorophenol	1.33	0.34	mg/Kg wet	1.67		79.7	30-130	0.301	30	
Diethylphthalate	1.48	0.34	mg/Kg wet	1.67		88.5	40-140	1.43	30	
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.1	30-130	0.824	30	
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	0.513	30	
2,4-Dinitrophenol	1.21	0.66	mg/Kg wet	1.67		72.6	15-140	5.70	30	V-19 †
2,4-Dinitrotoluene	1.54	0.34	mg/Kg wet	1.67		92.2	40-140	0.670	30	
2,6-Dinitrotoluene	1.64	0.34	mg/Kg wet	1.67		98.6	40-140	1.76	30	
Di-n-octylphthalate	1.32	0.34	mg/Kg wet	1.67		79.3	40-140	0.302	30	
1,2-Diphenylhydrazine/Azobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140	4.62	30	
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	2.57	30	
Fluorene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	0.330	30	
Hexachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	0.604	30	
Hexachlorobutadiene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	6.29	30	
Hexachloroethane	1.13	0.34	mg/Kg wet	1.67		67.9	40-140	8.41	30	
Indeno(1,2,3-cd)pyrene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140	2.20	30	
Isophorone	1.40	0.34	mg/Kg wet	1.67		83.7	40-140	1.23	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	0.854	30	
2-Methylphenol	1.25	0.34	mg/Kg wet	1.67		75.0	30-130	0.691	30	
3/4-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.4	30-130	1.23	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	1.10	30	
Nitrobenzene	1.34	0.34	mg/Kg wet	1.67		80.7	40-140	2.64	30	
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.2	30-130	0.0974	30	
4-Nitrophenol	1.70	0.66	mg/Kg wet	1.67		102	15-140	6.00	30	V-06 †
Pentachlorophenol	0.927	0.34	mg/Kg wet	1.67		55.6	30-130	4.05	30	
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	0.924	30	
Phenol	1.29	0.34	mg/Kg wet	1.67		77.2	15-140	1.54	30	†
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	2.34	30	
Pyridine	0.681	0.34	mg/Kg wet	1.67		40.8	30-140	14.9	30	V-05 †
1,2,4-Trichlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	4.25	30	
2,4,5-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130	0.275	30	
2,4,6-Trichlorophenol	1.42	0.34	mg/Kg wet	1.67		85.3	30-130	1.03	30	
Surrogate: 2-Fluorophenol	5.14		mg/Kg wet	6.67		77.2	30-130			
Surrogate: Phenol-d6	5.60		mg/Kg wet	6.67		84.0	30-130			
Surrogate: Nitrobenzene-d5	2.86		mg/Kg wet	3.33		85.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.51		mg/Kg wet	3.33		75.2	30-130			
Surrogate: 2,4,6-Tribromophenol	7.02		mg/Kg wet	6.67		105	30-130			
Surrogate: p-Terphenyl-d14	2.77		mg/Kg wet	3.33		83.2	30-130			

Matrix Spike (B216591-MS1)

Source: 18K0278-03

Prepared: 11/07/18 Analyzed: 11/08/18

Acenaphthene	1.27	0.20	mg/Kg dry	1.92	ND	66.1	40-140			
Acenaphthylene	1.32	0.20	mg/Kg dry	1.92	ND	68.8	40-140			
Acetophenone	1.38	0.39	mg/Kg dry	1.92	ND	71.8	40-140			
Aniline	0.945	0.39	mg/Kg dry	1.92	ND	49.2	40-140			V-04
Anthracene	1.43	0.20	mg/Kg dry	1.92	ND	74.4	40-140			
Benzo(a)anthracene	1.51	0.20	mg/Kg dry	1.92	ND	78.4	40-140			
Benzo(a)pyrene	1.52	0.20	mg/Kg dry	1.92	ND	79.1	40-140			
Benzo(b)fluoranthene	1.37	0.20	mg/Kg dry	1.92	ND	71.3	40-140			
Benzo(g,h,i)perylene	1.53	0.20	mg/Kg dry	1.92	ND	79.9	40-140			
Benzo(k)fluoranthene	1.45	0.20	mg/Kg dry	1.92	ND	75.8	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216591 - SW-846 3546										
Matrix Spike (B216591-MS1)	Source: 18K0278-03			Prepared: 11/07/18 Analyzed: 11/08/18						
Bis(2-chloroethoxy)methane	1.66	0.39	mg/Kg dry	1.92	ND	86.5	40-140			
Bis(2-chloroethyl)ether	1.55	0.39	mg/Kg dry	1.92	ND	80.9	40-140			
Bis(2-chloroisopropyl)ether	1.76	0.39	mg/Kg dry	1.92	ND	91.5	40-140			
Bis(2-Ethylhexyl)phthalate	1.62	0.39	mg/Kg dry	1.92	ND	84.5	40-140			
4-Bromophenylphenylether	1.38	0.39	mg/Kg dry	1.92	ND	72.1	40-140			
Butylbenzylphthalate	1.63	0.39	mg/Kg dry	1.92	ND	85.2	40-140			
4-Chloroaniline	0.872	0.76	mg/Kg dry	1.92	ND	45.4	40-140			V-34
2-Chloronaphthalene	1.14	0.39	mg/Kg dry	1.92	ND	59.5	40-140			
2-Chlorophenol	1.37	0.39	mg/Kg dry	1.92	ND	71.4	30-130			
Chrysene	1.49	0.20	mg/Kg dry	1.92	ND	77.4	40-140			
Dibenz(a,h)anthracene	1.41	0.20	mg/Kg dry	1.92	ND	73.5	40-140			
Dibenzofuran	1.37	0.39	mg/Kg dry	1.92	ND	71.5	40-140			
Di-n-butylphthalate	1.56	0.39	mg/Kg dry	1.92	ND	81.1	40-140			
1,2-Dichlorobenzene	1.19	0.39	mg/Kg dry	1.92	ND	61.9	40-140			
1,3-Dichlorobenzene	1.12	0.39	mg/Kg dry	1.92	ND	58.2	40-140			
1,4-Dichlorobenzene	1.14	0.39	mg/Kg dry	1.92	ND	59.3	40-140			
3,3-Dichlorobenzidine	1.17	0.20	mg/Kg dry	1.92	ND	61.2	40-140			
2,4-Dichlorophenol	1.28	0.39	mg/Kg dry	1.92	ND	66.8	30-130			
Diethylphthalate	1.47	0.39	mg/Kg dry	1.92	ND	76.4	40-140			
2,4-Dimethylphenol	1.40	0.39	mg/Kg dry	1.92	ND	73.1	30-130			
Dimethylphthalate	1.46	0.39	mg/Kg dry	1.92	ND	76.0	40-140			
2,4-Dinitrophenol	1.28	0.76	mg/Kg dry	1.92	ND	66.7	30-130			
2,4-Dinitrotoluene	1.45	0.39	mg/Kg dry	1.92	ND	75.7	40-140			
2,6-Dinitrotoluene	1.49	0.39	mg/Kg dry	1.92	ND	77.6	40-140			
Di-n-octylphthalate	1.58	0.39	mg/Kg dry	1.92	ND	82.2	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.64	0.39	mg/Kg dry	1.92	ND	85.7	40-140			
Fluoranthene	1.53	0.20	mg/Kg dry	1.92	ND	79.6	40-140			
Fluorene	1.34	0.20	mg/Kg dry	1.92	ND	69.9	40-140			
Hexachlorobenzene	1.37	0.39	mg/Kg dry	1.92	ND	71.3	40-140			
Hexachlorobutadiene	1.16	0.39	mg/Kg dry	1.92	ND	60.2	40-140			
Hexachloroethane	1.24	0.39	mg/Kg dry	1.92	ND	64.5	40-140			
Indeno(1,2,3-cd)pyrene	1.46	0.20	mg/Kg dry	1.92	ND	75.9	40-140			
Isophorone	1.56	0.39	mg/Kg dry	1.92	ND	81.3	40-140			
2-Methylnaphthalene	1.40	0.20	mg/Kg dry	1.92	ND	72.9	40-140			
2-Methylphenol	1.50	0.39	mg/Kg dry	1.92	ND	78.2	30-130			
3/4-Methylphenol	1.40	0.39	mg/Kg dry	1.92	ND	73.1	30-130			
Naphthalene	1.30	0.20	mg/Kg dry	1.92	ND	67.9	40-140			
Nitrobenzene	1.42	0.39	mg/Kg dry	1.92	ND	74.0	40-140			
2-Nitrophenol	1.32	0.39	mg/Kg dry	1.92	ND	68.5	30-130			
4-Nitrophenol	1.59	0.76	mg/Kg dry	1.92	ND	82.7	30-130			
Pentachlorophenol	1.11	0.39	mg/Kg dry	1.92	ND	58.1	30-130			
Phenanthrene	1.44	0.20	mg/Kg dry	1.92	ND	75.3	40-140			
Phenol	1.48	0.39	mg/Kg dry	1.92	ND	76.9	30-130			
Pyrene	1.37	0.20	mg/Kg dry	1.92	ND	71.4	40-140			
Pyridine	0.827	0.39	mg/Kg dry	1.92	ND	43.1	40-140			
1,2,4-Trichlorobenzene	1.22	0.39	mg/Kg dry	1.92	ND	63.7	40-140			
2,4,5-Trichlorophenol	1.35	0.39	mg/Kg dry	1.92	ND	70.4	30-130			
2,4,6-Trichlorophenol	1.36	0.39	mg/Kg dry	1.92	ND	70.7	30-130			
Surrogate: 2-Fluorophenol	5.94		mg/Kg dry	7.68		77.3	30-130			
Surrogate: Phenol-d6	6.25		mg/Kg dry	7.68		81.4	30-130			
Surrogate: Nitrobenzene-d5	2.96		mg/Kg dry	3.84		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.26		mg/Kg dry	3.84		59.0	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216591 - SW-846 3546										
Matrix Spike (B216591-MS1) Source: 18K0278-03 Prepared: 11/07/18 Analyzed: 11/08/18										
Surrogate: 2,4,6-Tribromophenol	6.06		mg/Kg dry	7.68		78.9	30-130			
Surrogate: p-Terphenyl-d14	2.89		mg/Kg dry	3.84		75.3	30-130			
Matrix Spike Dup (B216591-MSD1) Source: 18K0278-03 Prepared: 11/07/18 Analyzed: 11/08/18										
Acenaphthene	1.23	0.20	mg/Kg dry	1.91	ND	64.4	40-140	2.87	30	
Acenaphthylene	1.29	0.20	mg/Kg dry	1.91	ND	67.6	40-140	2.12	30	
Acetophenone	1.36	0.39	mg/Kg dry	1.91	ND	71.0	40-140	1.45	30	
Aniline	0.873	0.39	mg/Kg dry	1.91	ND	45.6	40-140	7.92	30	V-04
Anthracene	1.37	0.20	mg/Kg dry	1.91	ND	71.9	40-140	3.72	30	
Benzo(a)anthracene	1.45	0.20	mg/Kg dry	1.91	ND	76.0	40-140	3.52	30	
Benzo(a)pyrene	1.47	0.20	mg/Kg dry	1.91	ND	76.7	40-140	3.36	30	
Benzo(b)fluoranthene	1.31	0.20	mg/Kg dry	1.91	ND	68.6	40-140	4.13	30	
Benzo(g,h,i)perylene	1.43	0.20	mg/Kg dry	1.91	ND	74.7	40-140	7.13	30	
Benzo(k)fluoranthene	1.43	0.20	mg/Kg dry	1.91	ND	74.6	40-140	1.85	30	
Bis(2-chloroethoxy)methane	1.64	0.39	mg/Kg dry	1.91	ND	85.8	40-140	1.12	30	
Bis(2-chloroethyl)ether	1.52	0.39	mg/Kg dry	1.91	ND	79.6	40-140	1.98	30	
Bis(2-chloroisopropyl)ether	1.73	0.39	mg/Kg dry	1.91	ND	90.3	40-140	1.72	30	
Bis(2-Ethylhexyl)phthalate	1.59	0.39	mg/Kg dry	1.91	ND	82.9	40-140	2.27	30	
4-Bromophenylphenylether	1.36	0.39	mg/Kg dry	1.91	ND	70.9	40-140	1.95	30	
Butylbenzylphthalate	1.58	0.39	mg/Kg dry	1.91	ND	82.4	40-140	3.60	30	
4-Chloroaniline	0.855	0.76	mg/Kg dry	1.91	ND	44.7	40-140	1.97	30	V-34
2-Chloronaphthalene	1.14	0.39	mg/Kg dry	1.91	ND	59.7	40-140	0.0286	30	
2-Chlorophenol	1.36	0.39	mg/Kg dry	1.91	ND	71.3	30-130	0.415	30	
Chrysene	1.43	0.20	mg/Kg dry	1.91	ND	74.6	40-140	3.99	30	
Dibenz(a,h)anthracene	1.36	0.20	mg/Kg dry	1.91	ND	71.0	40-140	3.79	30	
Dibenzofuran	1.34	0.39	mg/Kg dry	1.91	ND	70.0	40-140	2.45	30	
Di-n-butylphthalate	1.52	0.39	mg/Kg dry	1.91	ND	79.4	40-140	2.35	30	
1,2-Dichlorobenzene	1.17	0.39	mg/Kg dry	1.91	ND	61.2	40-140	1.57	30	
1,3-Dichlorobenzene	1.09	0.39	mg/Kg dry	1.91	ND	57.2	40-140	1.99	30	
1,4-Dichlorobenzene	1.11	0.39	mg/Kg dry	1.91	ND	57.8	40-140	2.99	30	
3,3-Dichlorobenzidine	1.19	0.20	mg/Kg dry	1.91	ND	62.4	40-140	1.58	30	
2,4-Dichlorophenol	1.28	0.39	mg/Kg dry	1.91	ND	67.0	30-130	0.121	30	
Diethylphthalate	1.44	0.39	mg/Kg dry	1.91	ND	75.3	40-140	1.73	30	
2,4-Dimethylphenol	1.40	0.39	mg/Kg dry	1.91	ND	72.9	30-130	0.522	30	
Dimethylphthalate	1.42	0.39	mg/Kg dry	1.91	ND	74.5	40-140	2.43	30	
2,4-Dinitrophenol	1.26	0.76	mg/Kg dry	1.91	ND	65.6	30-130	1.87	30	
2,4-Dinitrotoluene	1.39	0.39	mg/Kg dry	1.91	ND	72.9	40-140	4.07	30	
2,6-Dinitrotoluene	1.45	0.39	mg/Kg dry	1.91	ND	75.8	40-140	2.76	30	
Di-n-octylphthalate	1.54	0.39	mg/Kg dry	1.91	ND	80.4	40-140	2.59	30	
1,2-Diphenylhydrazine/Azobenzene	1.59	0.39	mg/Kg dry	1.91	ND	83.3	40-140	3.22	30	
Fluoranthene	1.46	0.20	mg/Kg dry	1.91	ND	76.1	40-140	4.72	30	
Fluorene	1.33	0.20	mg/Kg dry	1.91	ND	69.3	40-140	1.13	30	
Hexachlorobenzene	1.36	0.39	mg/Kg dry	1.91	ND	70.9	40-140	0.865	30	
Hexachlorobutadiene	1.16	0.39	mg/Kg dry	1.91	ND	60.6	40-140	0.265	30	
Hexachloroethane	1.22	0.39	mg/Kg dry	1.91	ND	63.7	40-140	1.58	30	
Indeno(1,2,3-cd)pyrene	1.40	0.20	mg/Kg dry	1.91	ND	73.1	40-140	4.11	30	
Isophorone	1.53	0.39	mg/Kg dry	1.91	ND	80.2	40-140	1.74	30	
2-Methylnaphthalene	1.41	0.20	mg/Kg dry	1.91	ND	73.5	40-140	0.462	30	
2-Methylphenol	1.48	0.39	mg/Kg dry	1.91	ND	77.2	30-130	1.62	30	
3/4-Methylphenol	1.35	0.39	mg/Kg dry	1.91	ND	70.7	30-130	3.61	30	
Naphthalene	1.29	0.20	mg/Kg dry	1.91	ND	67.5	40-140	0.922	30	
Nitrobenzene	1.37	0.39	mg/Kg dry	1.91	ND	71.8	40-140	3.35	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216591 - SW-846 3546

Matrix Spike Dup (B216591-MSD1)

Source: 18K0278-03

Prepared: 11/07/18 Analyzed: 11/08/18

2-Nitrophenol	1.29	0.39	mg/Kg dry	1.91	ND	67.7	30-130	1.59	30	
4-Nitrophenol	1.49	0.76	mg/Kg dry	1.91	ND	77.7	30-130	6.61	30	
Pentachlorophenol	1.12	0.39	mg/Kg dry	1.91	ND	58.5	30-130	0.356	30	
Phenanthrene	1.42	0.20	mg/Kg dry	1.91	ND	74.2	40-140	1.75	30	
Phenol	1.45	0.39	mg/Kg dry	1.91	ND	76.1	30-130	1.45	30	
Pyrene	1.38	0.20	mg/Kg dry	1.91	ND	72.2	40-140	0.783	30	
Pyridine	0.740	0.39	mg/Kg dry	1.91	ND	38.7 *	40-140	11.1	30	
1,2,4-Trichlorobenzene	1.21	0.39	mg/Kg dry	1.91	ND	63.2	40-140	1.12	30	
2,4,5-Trichlorophenol	1.35	0.39	mg/Kg dry	1.91	ND	70.4	30-130	0.274	30	
2,4,6-Trichlorophenol	1.31	0.39	mg/Kg dry	1.91	ND	68.5	30-130	3.52	30	
Surrogate: 2-Fluorophenol	5.78		mg/Kg dry	7.65		75.5	30-130			
Surrogate: Phenol-d6	6.10		mg/Kg dry	7.65		79.8	30-130			
Surrogate: Nitrobenzene-d5	2.91		mg/Kg dry	3.83		76.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/Kg dry	3.83		58.9	30-130			
Surrogate: 2,4,6-Tribromophenol	5.88		mg/Kg dry	7.65		76.8	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg dry	3.83		74.2	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216575 - SW-846 3546										
Blank (B216575-BLK1)										
Prepared: 11/07/18 Analyzed: 11/10/18										
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0020	mg/Kg wet							
Aldrin [2C]	ND	0.0020	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0010	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDE	ND	0.0010	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0010	mg/Kg wet							
4,4'-DDT	ND	0.0010	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0010	mg/Kg wet							
Dieldrin	ND	0.0010	mg/Kg wet							
Dieldrin [2C]	ND	0.0010	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.198		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.3	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216575 - SW-846 3546										
LCS (B216575-BS1)										
					Prepared: 11/07/18 Analyzed: 11/10/18					
alpha-Chlordane	0.11	0.0050	mg/Kg wet	0.100		109	40-140			
alpha-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		111	40-140			
gamma-Chlordane	0.11	0.0050	mg/Kg wet	0.100		110	40-140			
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		108	40-140			
Alachlor	0.10	0.020	mg/Kg wet	0.100		101	40-140			
Alachlor [2C]	0.094	0.020	mg/Kg wet	0.100		94.0	40-140			
Aldrin	0.11	0.0020	mg/Kg wet	0.100		113	40-140			
Aldrin [2C]	0.11	0.0020	mg/Kg wet	0.100		105	40-140			
alpha-BHC	0.11	0.0050	mg/Kg wet	0.100		106	40-140			
alpha-BHC [2C]	0.10	0.0050	mg/Kg wet	0.100		102	40-140			
beta-BHC	0.10	0.0050	mg/Kg wet	0.100		104	40-140			
beta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.100		100	40-140			
delta-BHC	0.098	0.0050	mg/Kg wet	0.100		98.0	40-140			
delta-BHC [2C]	0.096	0.0050	mg/Kg wet	0.100		95.5	40-140			
gamma-BHC (Lindane)	0.11	0.0020	mg/Kg wet	0.100		110	40-140			
gamma-BHC (Lindane) [2C]	0.10	0.0020	mg/Kg wet	0.100		104	40-140			
4,4'-DDD	0.11	0.0010	mg/Kg wet	0.100		114	40-140			
4,4'-DDD [2C]	0.11	0.0010	mg/Kg wet	0.100		115	40-140			
4,4'-DDE	0.11	0.0010	mg/Kg wet	0.100		115	40-140			
4,4'-DDE [2C]	0.11	0.0010	mg/Kg wet	0.100		114	40-140			
4,4'-DDT	0.11	0.0010	mg/Kg wet	0.100		112	40-140			
4,4'-DDT [2C]	0.11	0.0010	mg/Kg wet	0.100		111	40-140			
Dieldrin	0.11	0.0010	mg/Kg wet	0.100		107	40-140			
Dieldrin [2C]	0.11	0.0010	mg/Kg wet	0.100		106	40-140			
Endosulfan I	0.10	0.0050	mg/Kg wet	0.100		100	40-140			
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140			
Endosulfan II	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		100	40-140			
Endosulfan Sulfate	0.11	0.0080	mg/Kg wet	0.100		109	40-140			
Endosulfan Sulfate [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Endrin	0.11	0.0080	mg/Kg wet	0.100		107	40-140			
Endrin [2C]	0.11	0.0080	mg/Kg wet	0.100		107	40-140			
Endrin Aldehyde	0.097	0.0080	mg/Kg wet	0.100		96.8	40-140			
Endrin Aldehyde [2C]	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140			
Endrin Ketone	0.11	0.0080	mg/Kg wet	0.100		106	40-140			
Endrin Ketone [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Heptachlor	0.097	0.0050	mg/Kg wet	0.100		96.6	40-140			
Heptachlor [2C]	0.10	0.0050	mg/Kg wet	0.100		103	40-140			
Heptachlor Epoxide	0.11	0.0050	mg/Kg wet	0.100		108	40-140			
Heptachlor Epoxide [2C]	0.10	0.0050	mg/Kg wet	0.100		103	40-140			
Hexachlorobenzene	0.12	0.0060	mg/Kg wet	0.100		118	40-140			
Hexachlorobenzene [2C]	0.11	0.0060	mg/Kg wet	0.100		107	40-140			
Methoxychlor	0.12	0.050	mg/Kg wet	0.100		116	40-140			
Methoxychlor [2C]	0.12	0.050	mg/Kg wet	0.100		118	40-140			
Surrogate: Decachlorobiphenyl	0.225		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.229		mg/Kg wet	0.200		114	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.219		mg/Kg wet	0.200		110	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216575 - SW-846 3546										
LCS Dup (B216575-BSD1)										
					Prepared: 11/07/18 Analyzed: 11/10/18					
alpha-Chlordane	0.10	0.0050	mg/Kg wet	0.100		102	40-140	6.24	30	
alpha-Chlordane [2C]	0.10	0.0050	mg/Kg wet	0.100		103	40-140	7.42	30	
gamma-Chlordane	0.10	0.0050	mg/Kg wet	0.100		103	40-140	6.09	30	
gamma-Chlordane [2C]	0.10	0.0050	mg/Kg wet	0.100		99.9	40-140	7.50	30	
Alachlor	0.095	0.020	mg/Kg wet	0.100		95.1	40-140	6.27	30	
Alachlor [2C]	0.087	0.020	mg/Kg wet	0.100		87.0	40-140	7.77	30	
Aldrin	0.11	0.0020	mg/Kg wet	0.100		106	40-140	5.55	30	
Aldrin [2C]	0.097	0.0020	mg/Kg wet	0.100		97.4	40-140	7.78	30	
alpha-BHC	0.10	0.0050	mg/Kg wet	0.100		101	40-140	4.45	30	
alpha-BHC [2C]	0.095	0.0050	mg/Kg wet	0.100		94.7	40-140	7.63	30	
beta-BHC	0.098	0.0050	mg/Kg wet	0.100		97.6	40-140	6.15	30	
beta-BHC [2C]	0.093	0.0050	mg/Kg wet	0.100		92.9	40-140	7.62	30	
delta-BHC	0.095	0.0050	mg/Kg wet	0.100		94.8	40-140	3.28	30	
delta-BHC [2C]	0.090	0.0050	mg/Kg wet	0.100		90.4	40-140	5.51	30	
gamma-BHC (Lindane)	0.10	0.0020	mg/Kg wet	0.100		104	40-140	5.21	30	
gamma-BHC (Lindane) [2C]	0.096	0.0020	mg/Kg wet	0.100		95.6	40-140	8.43	30	
4,4'-DDD	0.11	0.0010	mg/Kg wet	0.100		106	40-140	7.06	30	
4,4'-DDD [2C]	0.11	0.0010	mg/Kg wet	0.100		106	40-140	7.87	30	
4,4'-DDE	0.11	0.0010	mg/Kg wet	0.100		107	40-140	6.58	30	
4,4'-DDE [2C]	0.11	0.0010	mg/Kg wet	0.100		105	40-140	7.70	30	
4,4'-DDT	0.10	0.0010	mg/Kg wet	0.100		103	40-140	8.36	30	
4,4'-DDT [2C]	0.10	0.0010	mg/Kg wet	0.100		102	40-140	8.95	30	
Dieldrin	0.10	0.0010	mg/Kg wet	0.100		100	40-140	6.55	30	
Dieldrin [2C]	0.098	0.0010	mg/Kg wet	0.100		98.2	40-140	7.82	30	
Endosulfan I	0.092	0.0050	mg/Kg wet	0.100		91.7	40-140	9.04	30	
Endosulfan I [2C]	0.074	0.0050	mg/Kg wet	0.100		73.9	40-140	8.09	30	
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		93.5	40-140	8.18	30	
Endosulfan II [2C]	0.092	0.0080	mg/Kg wet	0.100		91.9	40-140	8.76	30	
Endosulfan Sulfate	0.11	0.0080	mg/Kg wet	0.100		105	40-140	3.34	30	
Endosulfan Sulfate [2C]	0.093	0.0080	mg/Kg wet	0.100		93.5	40-140	8.71	30	
Endrin	0.099	0.0080	mg/Kg wet	0.100		99.5	40-140	6.92	30	
Endrin [2C]	0.099	0.0080	mg/Kg wet	0.100		98.7	40-140	8.01	30	
Endrin Aldehyde	0.092	0.0080	mg/Kg wet	0.100		91.9	40-140	5.16	30	
Endrin Aldehyde [2C]	0.090	0.0080	mg/Kg wet	0.100		89.8	40-140	8.07	30	
Endrin Ketone	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	8.64	30	
Endrin Ketone [2C]	0.094	0.0080	mg/Kg wet	0.100		93.6	40-140	8.98	30	
Heptachlor	0.091	0.0050	mg/Kg wet	0.100		91.1	40-140	5.85	30	
Heptachlor [2C]	0.097	0.0050	mg/Kg wet	0.100		97.3	40-140	5.50	30	
Heptachlor Epoxide	0.10	0.0050	mg/Kg wet	0.100		101	40-140	5.81	30	
Heptachlor Epoxide [2C]	0.096	0.0050	mg/Kg wet	0.100		95.5	40-140	7.88	30	
Hexachlorobenzene	0.11	0.0060	mg/Kg wet	0.100		111	40-140	5.67	30	
Hexachlorobenzene [2C]	0.099	0.0060	mg/Kg wet	0.100		99.0	40-140	8.08	30	
Methoxychlor	0.11	0.050	mg/Kg wet	0.100		106	40-140	8.91	30	
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.100		112	40-140	5.12	30	
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.198		mg/Kg wet	0.200		99.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216574 - SW-846 3546										
Blank (B216574-BLK1)										
Prepared: 11/07/18 Analyzed: 11/08/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		85.0	30-150			
LCS (B216574-BS1)										
Prepared: 11/07/18 Analyzed: 11/08/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.3	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		100	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.0	40-140			
Surrogate: Decachlorobiphenyl	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.214		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.3	30-150			
LCS Dup (B216574-BSD1)										
Prepared: 11/07/18 Analyzed: 11/08/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.4	40-140	3.13	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.8	40-140	2.94	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.2	40-140	1.73	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	0.466	30	
Surrogate: Decachlorobiphenyl	0.217		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.177		mg/Kg wet	0.200		88.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216574 - SW-846 3546

Matrix Spike (B216574-MS1)

Source: 18K0278-01

Prepared: 11/07/18 Analyzed: 11/08/18

Aroclor-1016	0.29	0.10	mg/Kg dry	0.250	ND	115	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.250	ND	93.7	40-140			
Aroclor-1260	0.25	0.10	mg/Kg dry	0.250	ND	101	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg dry	0.250	ND	87.7	40-140			
Surrogate: Decachlorobiphenyl	0.246		mg/Kg dry	0.250		98.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.257		mg/Kg dry	0.250		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.242		mg/Kg dry	0.250		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.250		88.6	30-150			

Matrix Spike Dup (B216574-MSD1)

Source: 18K0278-01

Prepared: 11/07/18 Analyzed: 11/08/18

Aroclor-1016	0.28	0.10	mg/Kg dry	0.255	ND	109	40-140	5.75	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg dry	0.255	ND	98.8	40-140	5.32	30	
Aroclor-1260	0.24	0.10	mg/Kg dry	0.255	ND	94.5	40-140	6.78	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg dry	0.255	ND	84.3	40-140	3.90	30	
Surrogate: Decachlorobiphenyl	0.247		mg/Kg dry	0.255		97.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.268		mg/Kg dry	0.255		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.241		mg/Kg dry	0.255		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg dry	0.255		86.9	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216689 - SW-846 8151										
Blank (B216689-BLK1)										
Prepared: 11/08/18 Analyzed: 11/10/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	77.6		µg/kg wet	95.2		81.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	77.6		µg/kg wet	95.2		81.5	30-150			
LCS (B216689-BS1)										
Prepared: 11/08/18 Analyzed: 11/10/18										
2,4-D	115	25	µg/kg wet	125		91.7	40-140			
2,4-D [2C]	120	25	µg/kg wet	125		96.0	40-140			
2,4-DB	118	25	µg/kg wet	125		94.1	40-140			
2,4-DB [2C]	128	25	µg/kg wet	125		102	40-140			
2,4,5-TP (Silvex)	11.3	2.5	µg/kg wet	12.5		90.3	40-140			
2,4,5-TP (Silvex) [2C]	12.1	2.5	µg/kg wet	12.5		97.0	40-140			
2,4,5-T	11.1	2.5	µg/kg wet	12.5		88.7	40-140			
2,4,5-T [2C]	12.2	2.5	µg/kg wet	12.5		98.0	40-140			
Dalapon	182	62	µg/kg wet	312		58.3	40-140			
Dalapon [2C]	187	62	µg/kg wet	312		59.7	40-140			
Dicamba	11.0	2.5	µg/kg wet	12.5		87.8	40-140			
Dicamba [2C]	11.6	2.5	µg/kg wet	12.5		92.6	40-140			
Dichloroprop	117	25	µg/kg wet	125		93.4	40-140			
Dichloroprop [2C]	120	25	µg/kg wet	125		96.3	40-140			
Dinoseb	19.9	12	µg/kg wet	62.5		31.8	0-42.4			
Dinoseb [2C]	24.0	12	µg/kg wet	62.5		38.4	0-41.1			V-06
MCPA	10800	2500	µg/kg wet	12500		86.3	40-140			
MCPA [2C]	9900	2500	µg/kg wet	12500		79.2	40-140			
MCPP	14300	2500	µg/kg wet	12500		114	40-140			
MCPP [2C]	10700	2500	µg/kg wet	12500		85.7	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	85.0		µg/kg wet	100		85.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	88.4		µg/kg wet	100		88.4	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216689 - SW-846 8151										
LCS Dup (B216689-BSD1)										
					Prepared: 11/08/18 Analyzed: 11/10/18					
2,4-D	108	25	µg/kg wet	125		86.3	40-140	6.06	30	
2,4-D [2C]	113	25	µg/kg wet	125		90.4	40-140	6.03	30	
2,4-DB	110	25	µg/kg wet	125		88.2	40-140	6.40	30	
2,4-DB [2C]	120	25	µg/kg wet	125		95.9	40-140	6.60	30	
2,4,5-TP (Silvex)	10.6	2.5	µg/kg wet	12.5		85.1	40-140	5.99	30	
2,4,5-TP (Silvex) [2C]	11.4	2.5	µg/kg wet	12.5		91.2	40-140	6.15	30	
2,4,5-T	10.4	2.5	µg/kg wet	12.5		83.4	40-140	6.21	30	
2,4,5-T [2C]	11.4	2.5	µg/kg wet	12.5		91.5	40-140	6.88	30	
Dalapon	192	62	µg/kg wet	312		61.4	40-140	5.28	30	
Dalapon [2C]	195	62	µg/kg wet	312		62.4	40-140	4.50	30	
Dicamba	11.1	2.5	µg/kg wet	12.5		88.9	40-140	1.26	30	
Dicamba [2C]	11.0	2.5	µg/kg wet	12.5		88.4	40-140	4.73	30	
Dichloroprop	111	25	µg/kg wet	125		88.7	40-140	5.19	30	
Dichloroprop [2C]	115	25	µg/kg wet	125		91.7	40-140	4.91	30	
Dinoseb	22.1	12	µg/kg wet	62.5		35.3	0-42.4	10.5	30	
Dinoseb [2C]	26.5	12	µg/kg wet	62.5		42.4 *	0-41.1	10.0	30	V-06
MCPA	10400	2500	µg/kg wet	12500		83.5	40-140	3.34	30	
MCPA [2C]	9460	2500	µg/kg wet	12500		75.7	40-140	4.57	30	
MCPP	14400	2500	µg/kg wet	12500		116	40-140	1.26	30	
MCPP [2C]	10200	2500	µg/kg wet	12500		81.7	40-140	4.72	30	
Surrogate: 2,4-Dichlorophenylacetic acid	83.3		µg/kg wet	100		83.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	84.5		µg/kg wet	100		84.5	30-150			
Matrix Spike (B216689-MS1)										
					Source: 18K0278-03 Prepared: 11/08/18 Analyzed: 11/10/18					
2,4-D	131	29	µg/kg dry	145	ND	90.6	30-150			
2,4-D [2C]	141	29	µg/kg dry	145	ND	97.4	30-150			V-06
2,4-DB	128	29	µg/kg dry	145	ND	88.5	30-150			
2,4-DB [2C]	152	29	µg/kg dry	145	ND	105	30-150			V-06
2,4,5-TP (Silvex)	13.0	2.9	µg/kg dry	14.5	ND	90.0	30-150			
2,4,5-TP (Silvex) [2C]	13.6	2.9	µg/kg dry	14.5	ND	93.7	30-150			V-06
2,4,5-T	12.6	2.9	µg/kg dry	14.5	ND	86.7	30-150			
2,4,5-T [2C]	14.2	2.9	µg/kg dry	14.5	ND	97.7	30-150			V-06
Dalapon	270	72	µg/kg dry	362	ND	74.7	30-150			
Dalapon [2C]	277	72	µg/kg dry	362	ND	76.4	30-150			
Dicamba	13.8	2.9	µg/kg dry	14.5	ND	95.2	30-150			
Dicamba [2C]	13.7	2.9	µg/kg dry	14.5	ND	94.7	30-150			
Dichloroprop	138	29	µg/kg dry	145	ND	95.0	30-150			
Dichloroprop [2C]	140	29	µg/kg dry	145	ND	96.3	30-150			
Dinoseb	25.4	14	µg/kg dry	72.4	ND	35.1	10-150			V-06
Dinoseb [2C]	29.3	14	µg/kg dry	72.4	ND	40.4	10-150			V-06
MCPA	13100	2900	µg/kg dry	14500	ND	90.3	30-150			
MCPA [2C]	11900	2900	µg/kg dry	14500	ND	82.0	30-150			
MCPP	17900	2900	µg/kg dry	14500	ND	123	30-150			
MCPP [2C]	12500	2900	µg/kg dry	14500	ND	86.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	108		µg/kg dry	116		93.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	107		µg/kg dry	116		92.1	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216689 - SW-846 8151										
Matrix Spike Dup (B216689-MSD1)	Source: 18K0278-03			Prepared: 11/08/18 Analyzed: 11/10/18						
2,4-D	137	29	µg/kg dry	145	ND	94.4	30-150	4.13	30	
2,4-D [2C]	145	29	µg/kg dry	145	ND	100	30-150	2.76	30	V-06
2,4-DB	131	29	µg/kg dry	145	ND	90.5	30-150	2.25	30	
2,4-DB [2C]	154	29	µg/kg dry	145	ND	107	30-150	1.81	30	V-06
2,4,5-TP (Silvex)	14.4	2.9	µg/kg dry	14.5	ND	99.1	30-150	9.70	30	
2,4,5-TP (Silvex) [2C]	14.0	2.9	µg/kg dry	14.5	ND	96.5	30-150	2.91	30	V-06
2,4,5-T	14.1	2.9	µg/kg dry	14.5	ND	97.1	30-150	11.3	30	
2,4,5-T [2C]	14.7	2.9	µg/kg dry	14.5	ND	101	30-150	3.50	30	V-06
Dalapon	255	72	µg/kg dry	362	ND	70.3	30-150	6.02	30	
Dalapon [2C]	261	72	µg/kg dry	362	ND	72.1	30-150	5.69	30	
Dicamba	13.4	2.9	µg/kg dry	14.5	ND	92.1	30-150	3.21	30	
Dicamba [2C]	13.7	2.9	µg/kg dry	14.5	ND	94.7	30-150	0.0802	30	
Dichloroprop	139	29	µg/kg dry	145	ND	95.9	30-150	1.01	30	
Dichloroprop [2C]	143	29	µg/kg dry	145	ND	98.9	30-150	2.66	30	
Dinoseb	28.5	14	µg/kg dry	72.4	ND	39.4	10-150	11.4	30	V-06
Dinoseb [2C]	31.3	14	µg/kg dry	72.4	ND	43.2	10-150	6.68	30	V-06
MCPA	13200	2900	µg/kg dry	14500	ND	90.9	30-150	0.675	30	
MCPA [2C]	12000	2900	µg/kg dry	14500	ND	82.6	30-150	0.665	30	
MCPP	17900	2900	µg/kg dry	14500	ND	123	30-150	0.0862	30	
MCPP [2C]	12900	2900	µg/kg dry	14500	ND	88.9	30-150	3.29	30	
Surrogate: 2,4-Dichlorophenylacetic acid	112		µg/kg dry	116		96.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	112		µg/kg dry	116		96.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216634 - SW-846 3546										
Blank (B216634-BLK1)					Prepared: 11/07/18 Analyzed: 11/08/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.21		mg/Kg wet	3.33		66.2	40-140			
LCS (B216634-BS1)					Prepared: 11/07/18 Analyzed: 11/08/18					
TPH (C9-C36)	28.3	8.3	mg/Kg wet	33.3		85.0	40-140			
Surrogate: 2-Fluorobiphenyl	2.48		mg/Kg wet	3.33		74.3	40-140			
LCS Dup (B216634-BSD1)					Prepared: 11/07/18 Analyzed: 11/08/18					
TPH (C9-C36)	27.5	8.3	mg/Kg wet	33.3		82.6	40-140	2.92	30	
Surrogate: 2-Fluorobiphenyl	2.33		mg/Kg wet	3.33		70.0	40-140			
Matrix Spike (B216634-MS1)					Source: 18K0278-01 Prepared: 11/07/18 Analyzed: 11/08/18					
TPH (C9-C36)	351	100	mg/Kg dry	41.5	361	-25.1 *	40-140			MS-22
Surrogate: 2-Fluorobiphenyl	2.62		mg/Kg dry	4.15		63.3	40-140			
Matrix Spike Dup (B216634-MSD1)					Source: 18K0278-01 Prepared: 11/07/18 Analyzed: 11/08/18					
TPH (C9-C36)	385	110	mg/Kg dry	42.2	361	56.2	40-140	9.27	30	
Surrogate: 2-Fluorobiphenyl	3.03		mg/Kg dry	4.22		71.9	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216703 - SW-846 7471										
Blank (B216703-BLK1) Prepared & Analyzed: 11/08/18										
Mercury	ND	0.025	mg/Kg wet							
LCS (B216703-BS1) Prepared & Analyzed: 11/08/18										
Mercury	12.1	1.9	mg/Kg wet	11.5		105	71.6-127.8			
LCS Dup (B216703-BSD1) Prepared & Analyzed: 11/08/18										
Mercury	12.2	1.9	mg/Kg wet	11.5		106	71.6-127.8	0.246	30	
Batch B216743 - SW-846 3050B										
Blank (B216743-BLK1) Prepared: 11/08/18 Analyzed: 11/09/18										
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B216743-BS1) Prepared: 11/08/18 Analyzed: 11/09/18										
Antimony	55.2	5.0	mg/Kg wet	75.5		73.1	3.8-196			
Arsenic	137	5.0	mg/Kg wet	161		85.3	83.2-116.8			
Barium	235	5.0	mg/Kg wet	260		90.3	82.7-117.3			
Beryllium	88.5	0.50	mg/Kg wet	97.6		90.7	83.4-116.8			
Cadmium	181	0.50	mg/Kg wet	211		85.8	83.4-116.6			
Chromium	117	1.0	mg/Kg wet	136		86.3	82.4-117.6			
Lead	95.1	1.5	mg/Kg wet	111		85.7	83-117.1			
Nickel	83.7	1.0	mg/Kg wet	91.9		91.1	82.9-117.5			
Selenium	158	10	mg/Kg wet	191		82.9	79.6-120.9			
Silver	39.1	1.0	mg/Kg wet	43.3		90.3	79.9-119.9			
Thallium	145	5.0	mg/Kg wet	156		92.8	81.4-119.2			
Vanadium	45.9	2.0	mg/Kg wet	56.7		80.9	79-121.2			
Zinc	194	2.0	mg/Kg wet	199		97.4	81.4-119.1			
LCS Dup (B216743-BSD1) Prepared: 11/08/18 Analyzed: 11/09/18										
Antimony	52.3	5.0	mg/Kg wet	75.5		69.3	3.8-196	5.25	30	
Arsenic	138	5.0	mg/Kg wet	161		85.7	83.2-116.8	0.434	30	
Barium	237	5.0	mg/Kg wet	260		91.1	82.7-117.3	0.900	30	
Beryllium	89.5	0.50	mg/Kg wet	97.6		91.7	83.4-116.8	1.13	30	
Cadmium	188	0.50	mg/Kg wet	211		89.1	83.4-116.6	3.68	30	
Chromium	119	0.99	mg/Kg wet	136		87.3	82.4-117.6	1.11	30	
Lead	97.6	1.5	mg/Kg wet	111		88.0	83-117.1	2.65	30	
Nickel	84.8	0.99	mg/Kg wet	91.9		92.3	82.9-117.5	1.36	30	
Selenium	160	9.9	mg/Kg wet	191		83.5	79.6-120.9	0.786	30	
Silver	40.2	0.99	mg/Kg wet	43.3		92.9	79.9-119.9	2.76	30	
Thallium	146	5.0	mg/Kg wet	156		93.7	81.4-119.2	1.06	30	
Vanadium	45.7	2.0	mg/Kg wet	56.7		80.7	79-121.2	0.332	30	
Zinc	179	2.0	mg/Kg wet	199		89.9	81.4-119.1	8.07	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B216743 - SW-846 3050B

MRL Check (B216743-MRL1)

Prepared: 11/08/18 Analyzed: 11/09/18

Lead	0.511	0.49	mg/Kg wet	0.488		105	80-120			
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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216565 - SW-846 9045C										
LCS (B216565-BS1)				Prepared & Analyzed: 11/06/18						
pH	6.02		pH Units	6.00		100	90-110			
LCS (B216565-BS2)				Prepared & Analyzed: 11/06/18						
pH	6.04		pH Units	6.00		101	90-110			
Duplicate (B216565-DUP1)				Source: 18K0278-05			Prepared & Analyzed: 11/06/18			
pH	4.7		pH Units		4.6			0.864	5	
Duplicate (B216565-DUP2)				Source: 18K0278-07			Prepared & Analyzed: 11/06/18			
pH	5.6		pH Units		5.5			1.69	5	
Batch B216769 - SW-846 9014										
Blank (B216769-BLK1)				Prepared: 11/08/18 Analyzed: 11/12/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B216769-BS1)				Prepared: 11/08/18 Analyzed: 11/12/18						
Reactive Cyanide	10	0.40	mg/Kg	10.0		103	83.6-111			
Batch B216817 - SM21-22 2510B Modified										
Blank (B216817-BLK1)				Prepared & Analyzed: 11/09/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B216817-BS1)				Prepared & Analyzed: 11/09/18						
Specific conductance	190		µmhos/cm	192		101	90-110			
Duplicate (B216817-DUP1)				Source: 18K0278-01			Prepared & Analyzed: 11/09/18			
Specific conductance	3.5	2.0	µmhos/cm		3.4			3.77	21	
Batch B216984 - SW-846 9030A										
Blank (B216984-BLK1)				Prepared: 11/08/18 Analyzed: 11/12/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B216984-BS1)				Prepared: 11/08/18 Analyzed: 11/12/18						
Reactive Sulfide	13	2.0	mg/Kg	14.8		86.5	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S029208-PEM1 **Analyzed:** 11/08/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.34
Endrin [1] 2.69

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.53
Endrin [2] 2.90

BREAKDOWN REPORT

Lab Sample ID: S029208-PEM2 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.07
Endrin [1] 2.77

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.32
Endrin [2] 3.06

BREAKDOWN REPORT

Lab Sample ID: S029208-PEM3 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.41
Endrin [1] 3.20

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BREAKDOWN REPORT

Lab Sample ID: S029208-PEM3 **Analyzed:** 11/09/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.72
Endrin [2] 3.40

BREAKDOWN REPORT

Lab Sample ID: S029208-PEM4 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.67
Endrin [1] 3.46

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 4.05
Endrin [2] 3.64

BREAKDOWN REPORT

Lab Sample ID: S029208-PEM5 **Analyzed:** 11/09/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 3.46
Endrin [1] 3.84

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 3.87
Endrin [2] 4.05

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B216574-BS1 Date(s) Analyzed: 11/08/2018 11/08/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.17	16.2
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.17	16.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B216574-BSD1 Date(s) Analyzed: 11/08/2018 11/08/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.17	16.2
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.17	16.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

Matrix Spike

Lab Sample ID: B216574-MS1 Date(s) Analyzed: 11/08/2018 11/08/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.29	
	2	0.000	0.000	0.000	0.23	23.1
Aroclor-1260	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.22	12.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B216574-MSD1 Date(s) Analyzed: 11/08/2018 11/08/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.28	
	2	0.000	0.000	0.000	0.25	11.3
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.21	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B216575-BS1 Date(s) Analyzed: 11/09/2018 11/10/2018
 Instrument ID (1): ECD6A Instrument ID (2): ECD6B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.733	7.705	7.765	0.11	
	2	7.730	7.702	7.762	0.11	0.0
4,4'-DDE	1	7.271	7.243	7.303	0.11	
	2	7.281	7.253	7.313	0.11	8.7
4,4'-DDT	1	7.950	7.923	7.983	0.11	
	2	7.973	7.945	8.005	0.11	0.0
Alachlor	1	6.669	6.641	6.701	0.10	
	2	6.411	6.383	6.443	0.094	6.2
Aldrin	1	6.584	6.556	6.616	0.11	
	2	6.493	6.464	6.524	0.11	0.0
alpha-BHC	1	5.806	5.779	5.839	0.11	
	2	5.720	5.691	5.751	0.10	9.5
alpha-Chlordane	1	7.224	7.197	7.257	0.11	
	2	7.157	7.129	7.189	0.11	0.0
beta-BHC	1	6.081	6.053	6.113	0.10	
	2	6.013	5.982	6.042	0.10	0.0
delta-BHC	1	6.210	6.182	6.242	0.098	
	2	6.216	6.187	6.247	0.096	2.1
Dieldrin	1	7.515	7.489	7.549	0.11	
	2	7.412	7.384	7.444	0.11	0.0
Endosulfan I	1	7.333	7.306	7.366	0.10	
	2	7.203	7.175	7.235	0.080	22.2
Endosulfan II	1	7.872	7.845	7.905	0.10	
	2	7.814	7.786	7.846	0.10	0.0
Endosulfan Sulfate	1	8.462	8.434	8.494	0.11	
	2	8.262	8.234	8.294	0.10	9.5
Endrin	1	7.699	7.672	7.732	0.11	
	2	7.649	7.621	7.681	0.11	0.0
Endrin Aldehyde	1	8.177	8.148	8.208	0.097	
	2	8.071	8.042	8.102	0.097	0.0
Endrin Ketone	1	8.638	8.610	8.670	0.11	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B216575-BS1 Date(s) Analyzed: 11/09/2018 11/10/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.601	8.573	8.633	0.10	9.5
gamma-BHC (Lindane)	1	6.025	5.998	6.058	0.11	
	2	5.958	5.930	5.990	0.10	9.5
gamma-Chlordane	1	7.123	7.096	7.156	0.11	
	2	7.047	7.019	7.079	0.11	0.0
Heptachlor	1	6.364	6.336	6.396	0.097	
	2	6.262	6.233	6.293	0.10	3.1
Heptachlor Epoxide	1	7.031	7.003	7.063	0.11	
	2	6.908	6.880	6.940	0.10	9.5
Hexachlorobenzene	1	5.692	5.664	5.724	0.12	
	2	5.626	5.597	5.657	0.11	8.7
Methoxychlor	1	8.282	8.254	8.314	0.12	
	2	8.443	8.414	8.474	0.12	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216575-BSD1 Date(s) Analyzed: 11/10/2018 11/10/2018
 Instrument ID (1): ECD6A Instrument ID (2): ECD6B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.733	7.705	7.765	0.11	
	2	7.730	7.702	7.762	0.11	0.0
4,4'-DDE	1	7.270	7.243	7.303	0.11	
	2	7.281	7.253	7.313	0.11	0.0
4,4'-DDT	1	7.949	7.923	7.983	0.10	
	2	7.973	7.945	8.005	0.10	0.0
Alachlor	1	6.669	6.641	6.701	0.095	
	2	6.410	6.383	6.443	0.087	8.8
Aldrin	1	6.584	6.556	6.616	0.11	
	2	6.492	6.464	6.524	0.097	12.6
alpha-BHC	1	5.806	5.779	5.839	0.10	
	2	5.720	5.691	5.751	0.095	5.1
alpha-Chlordane	1	7.224	7.197	7.257	0.10	
	2	7.157	7.129	7.189	0.10	0.0
beta-BHC	1	6.081	6.053	6.113	0.098	
	2	6.013	5.982	6.042	0.093	5.2
delta-BHC	1	6.210	6.182	6.242	0.095	
	2	6.215	6.187	6.247	0.090	5.4
Dieldrin	1	7.516	7.489	7.549	0.10	
	2	7.412	7.384	7.444	0.098	2.0
Endosulfan I	1	7.332	7.306	7.366	0.092	
	2	7.203	7.175	7.235	0.074	21.7
Endosulfan II	1	7.872	7.845	7.905	0.093	
	2	7.814	7.786	7.846	0.092	2.2
Endosulfan Sulfate	1	8.462	8.434	8.494	0.11	
	2	8.262	8.234	8.294	0.093	16.7
Endrin	1	7.699	7.672	7.732	0.099	
	2	7.648	7.621	7.681	0.099	1.0
Endrin Aldehyde	1	8.177	8.148	8.208	0.092	
	2	8.070	8.042	8.102	0.090	2.2
Endrin Ketone	1	8.637	8.610	8.670	0.097	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B216575-BSD1 Date(s) Analyzed: 11/10/2018 11/10/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.601	8.573	8.633	0.094	3.1
gamma-BHC (Lindane)	1	6.026	5.998	6.058	0.10	
	2	5.958	5.930	5.990	0.096	4.1
gamma-Chlordane	1	7.123	7.096	7.156	0.10	
	2	7.047	7.019	7.079	0.10	0.0
Heptachlor	1	6.364	6.336	6.396	0.091	
	2	6.262	6.233	6.293	0.097	6.4
Heptachlor Epoxide	1	7.030	7.003	7.063	0.10	
	2	6.908	6.880	6.940	0.096	4.1
Hexachlorobenzene	1	5.692	5.664	5.724	0.11	
	2	5.626	5.597	5.657	0.099	10.5
Methoxychlor	1	8.282	8.254	8.314	0.11	
	2	8.442	8.414	8.474	0.11	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B216689-BS1 Date(s) Analyzed: 11/10/2018 11/10/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.049	0.000	0.000	11.1	
	2	15.633	0.000	0.000	12.2	10.3
2,4,5-TP (Silvex)	1	15.427	0.000	0.000	11.3	
	2	14.796	0.000	0.000	12.1	9.5
2,4-D	1	13.583	0.000	0.000	115	
	2	13.073	0.000	0.000	120	0.0
2,4-DB	1	16.939	0.000	0.000	118	
	2	16.690	0.000	0.000	128	6.5
Dalapon	1	4.545	0.000	0.000	182	
	2	4.035	0.000	0.000	187	3.8
Dicamba	1	11.466	0.000	0.000	11.0	
	2	10.905	0.000	0.000	11.6	5.3
Dichloroprop	1	13.073	0.000	0.000	117	
	2	12.407	0.000	0.000	120	0.0
Dinoseb	1	17.608	0.000	0.000	19.9	
	2	16.981	0.000	0.000	24.0	18.2
MCPA	1	12.288	0.000	0.000	10800	
	2	11.730	0.000	0.000	9900	10.5
MCPD	1	11.956	0.000	0.000	14300	
	2	11.248	0.000	0.000	10700	26.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8151A

Lab Sample ID: B216689-BSD1 Date(s) Analyzed: 11/10/2018 11/10/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.050	0.000	0.000	10.4	
	2	15.634	0.000	0.000	11.4	13.1
2,4,5-TP (Silvex)	1	15.427	0.000	0.000	10.6	
	2	14.796	0.000	0.000	11.4	3.6
2,4-D	1	13.584	0.000	0.000	108	
	2	13.073	0.000	0.000	113	2.7
2,4-DB	1	16.939	0.000	0.000	110	
	2	16.690	0.000	0.000	120	8.7
Dalapon	1	4.544	0.000	0.000	192	
	2	4.033	0.000	0.000	195	2.6
Dicamba	1	11.464	0.000	0.000	11.1	
	2	10.905	0.000	0.000	11.0	0.0
Dichloroprop	1	13.073	0.000	0.000	111	
	2	12.406	0.000	0.000	115	4.4
Dinoseb	1	17.608	0.000	0.000	22.1	
	2	16.981	0.000	0.000	26.5	18.6
MCPA	1	12.287	0.000	0.000	10400	
	2	11.729	0.000	0.000	9460	5.6
MCP P	1	11.955	0.000	0.000	14400	
	2	11.246	0.000	0.000	10200	31.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8151A

Lab Sample ID: B216689-MS1 Date(s) Analyzed: 11/10/2018 11/10/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.042	0.000	0.000	12.6	
	2	15.620	0.000	0.000	14.2	8.8
2,4,5-TP (Silvex)	1	15.421	0.000	0.000	13.0	
	2	14.785	0.000	0.000	13.6	4.5
2,4-D	1	13.577	0.000	0.000	131	
	2	13.063	0.000	0.000	141	8.1
2,4-DB	1	16.936	0.000	0.000	128	
	2	16.683	0.000	0.000	152	15.6
Dalapon	1	4.542	0.000	0.000	270	
	2	4.031	0.000	0.000	277	2.6
Dicamba	1	11.461	0.000	0.000	13.8	
	2	10.898	0.000	0.000	13.7	2.2
Dichloroprop	1	13.068	0.000	0.000	138	
	2	12.398	0.000	0.000	140	0.0
Dinoseb	1	17.610	0.000	0.000	25.4	
	2	16.979	0.000	0.000	29.3	15.8
MCPA	1	12.285	0.000	0.000	13100	
	2	11.723	0.000	0.000	11900	8.8
MCPD	1	11.951	0.000	0.000	17900	
	2	11.241	0.000	0.000	12500	36.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B216689-MSD1 Date(s) Analyzed: 11/10/2018 11/10/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.047	0.000	0.000	14.1	
	2	15.619	0.000	0.000	14.7	4.9
2,4,5-TP (Silvex)	1	15.420	0.000	0.000	14.4	
	2	14.785	0.000	0.000	14.0	0.0
2,4-D	1	13.576	0.000	0.000	137	
	2	13.063	0.000	0.000	145	3.5
2,4-DB	1	16.934	0.000	0.000	131	
	2	16.683	0.000	0.000	154	16.9
Dalapon	1	4.543	0.000	0.000	255	
	2	4.032	0.000	0.000	261	0.4
Dicamba	1	11.461	0.000	0.000	13.4	
	2	10.899	0.000	0.000	13.7	5.2
Dichloroprop	1	13.068	0.000	0.000	139	
	2	12.398	0.000	0.000	143	2.1
Dinoseb	1	17.604	0.000	0.000	28.5	
	2	16.977	0.000	0.000	31.3	7.6
MCPA	1	12.284	0.000	0.000	13200	
	2	11.724	0.000	0.000	12000	8.0
MCPD	1	11.953	0.000	0.000	17900	
	2	11.241	0.000	0.000	12900	33.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
E	Reported result is estimated. Value reported over verified calibration range.
H-03	Sample received after recommended holding time was exceeded.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
p-Isopropyltoluene (p-Cymene)	NH, NY
Methyl tert-Butyl Ether (MTBE)	NH, NY
Methylene Chloride	CT, NH, NY, ME
4-Methyl-2-pentanone (MIBK)	CT, NH, NY
Naphthalene	NH, NY, ME
n-Propylbenzene	NH, NY
Styrene	CT, NH, NY, ME
1,1,1,2-Tetrachloroethane	CT, NH, NY, ME
1,1,2,2-Tetrachloroethane	CT, NH, NY, ME
Tetrachloroethylene	CT, NH, NY, ME
Toluene	CT, NH, NY, ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH, NY, ME
1,1,1-Trichloroethane	CT, NH, NY, ME
1,1,2-Trichloroethane	CT, NH, NY, ME
Trichloroethylene	CT, NH, NY, ME
Trichlorofluoromethane (Freon 11)	CT, NH, NY, ME
1,2,3-Trichloropropane	NH, NY, ME
1,2,4-Trimethylbenzene	CT, NH, NY, ME
1,3,5-Trimethylbenzene	CT, NH, NY, ME
Vinyl Chloride	CT, NH, NY, ME
m+p Xylene	CT, NH, NY, ME
o-Xylene	CT, NH, NY, ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT, NY, NH
Acenaphthylene	CT, NY, NH
Acetophenone	NY, NH
Aniline	NY, NH
Anthracene	CT, NY, NH
Benzo(a)anthracene	CT, NY, NH
Benzo(a)pyrene	CT, NY, NH
Benzo(b)fluoranthene	CT, NY, NH
Benzo(g,h,i)perylene	CT, NY, NH
Benzo(k)fluoranthene	CT, NY, NH
Bis(2-chloroethoxy)methane	CT, NY, NH
Bis(2-chloroethyl)ether	CT, NY, NH
Bis(2-chloroisopropyl)ether	CT, NY, NH
Bis(2-Ethylhexyl)phthalate	CT, NY, NH
4-Bromophenylphenylether	CT, NY, NH
Butylbenzylphthalate	CT, NY, NH
4-Chloroaniline	CT, NY, NH
2-Chloronaphthalene	CT, NY, NH
2-Chlorophenol	CT, NY, NH
Chrysene	CT, NY, NH
Dibenz(a,h)anthracene	CT, NY, NH
Dibenzofuran	CT, NY, NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1860278

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@con-testlabs.com



KKM

Company Name: VHB

Address: 101 Walnut Street, Watertown, MA

Phone: 617-607-1841

Project Name: Eversource Transmission Project

Project Location: Sudbury, Massachusetts

Project Number: 12970.03

Project Manager: Paige Cornell

Con-Test Quote Name/Number: _____

Invoice Recipient: _____

Sampled By: DR/FIB

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
1	MP 33	11/18	13:30	x	x	S	U
2	MP 27	11/5/18	11:00			L	L
3	MP 28		12:05			L	L
4	MP 29		13:15			L	L
5	MP 30	11/4/18	08:50			L	L
6	MP 31		11:05			L	L
7	MP 35		12:00			L	L

Comments:

Viials frozen on day of generation by 16:00
 Retinquished by: (signature)
 Received by: (signature)
 Retinquished by: (signature)
 Received by: (signature)

Date/Time	Signature	Role
11/18/18 14:30	[Signature]	Client
11-6-18 15:07	[Signature]	Client
11-6-18 17:40	[Signature]	Client
11/6/18 17:40	[Signature]	Client
11/6/18 19:30	[Signature]	Client
11/6/18 2:20	[Signature]	Client

Special Requirements
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 PWSID # _____

Detection Limit Requirements
 MA
 CT
 Other: _____

TCLP 20x Rule
 Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Other
 Chromatogram
 AIHA-LAP, LLC

ANALYSIS REQUESTED	3	3	3	3	9	# of Containers
Ignitability, pH, Reactivity	x					
Conductivity	x					
Pesticide/Herbicide	x					
SVOCs, PCBs, TPH	x					
VOCs	x					
MCP 14 Metals	x					

ANALYSIS REQUESTED

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define) _Di

H2O

3 Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

PCB ONLY

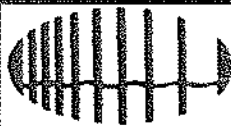
Soxhlet

Non Soxhlet



DF FROZEN 11-6-18 1430

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHS

Received By LR Date 11-6-18 Time 1930

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp -2.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? F *

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? T

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Acid _____ Base _____

Who was notified? _____

Who was notified? _____

Who was notified? Luke

MS/MSD? F

Is splitting samples required? F

On COC? F

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>7</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	<u>14</u>	Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: <u>DI</u> <u>11-6-18</u>
Sulfuric-		Perchlorate		Ziplock		<u>1930</u>

Unused Media

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

Samples MP-33, MP27, MP28, MP29 received out of holding time for pH

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory		Project #: 18K0278	
Project Location: Sudbury, MA		RTN:	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 18K0278-01 thru 18K0278-07			
Matrices: Soil			
CAM Protocol (check all that below)			
8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)
			9014 Total Cyanide/PAC CAM VI A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)
			7196 Hex Cr CAM VI B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)
			8330 Explosives CAM VIII A ()
			6860 Perchlorate CAM VIII B ()
			MassDEP APH CAM IX A ()
			TO-15 VOC CAM IX B ()
Affirmative response to Questions A through F is required for "Presumptive Certainty" status			
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions G, H and I below is required for "Presumptive Certainty" status			
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.			
Signature: <u>Tod E. Kopyscinski</u>		Position: Laboratory Director	
Printed Name: <u>Tod E. Kopyscinski</u>		Date: <u>11/14/18</u>	

November 29, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K0568

Enclosed are results of analyses for samples received by the laboratory on November 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, slightly slanted style.

Kerry K. McGee
Project Manager

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Certifications	17
Chain of Custody/Sample Receipt	18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0568

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B34	18K0568-01	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B33	18K0568-02	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B37	18K0568-03	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B38	18K0568-04	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0568

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B39	18K0568-05	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/8/2018 13:00

Field Sample #: B34

Sample ID: 18K0568-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		11/26/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/8/2018 13:00

Field Sample #: B34

Sample ID: 18K0568-01

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		11/20/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		11/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/8/2018 10:00

Field Sample #: B33

Sample ID: 18K0568-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		11/28/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/8/2018 10:00

Field Sample #: B33

Sample ID: 18K0568-02

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		11/20/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		11/28/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/12/2018 11:00

Field Sample #: B37

Sample ID: 18K0568-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		11/26/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/12/2018 11:00

Field Sample #: B37

Sample ID: 18K0568-03

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		11/20/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		11/28/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/12/2018 13:00

Field Sample #: B38

Sample ID: 18K0568-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		11/26/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/12/2018 13:00

Field Sample #: B38

Sample ID: 18K0568-04

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216	11/20/18 0:00		GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557	11/24/18 0:00		GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/9/2018 13:00

Field Sample #: B39

Sample ID: 18K0568-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		11/26/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0568

Date Received: 11/13/2018

Sampled: 11/9/2018 13:00

Field Sample #: B39

Sample ID: 18K0568-05

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		11/20/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		11/24/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Doc # 381 Rev 1_03242017

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Address: 101 Walnut Street, Watertown, MA
 Phone: 617-607-1841

Project Location: Sudbury, Massachusetts

Project Number: 12970.03

Project Manager: Paige Cornell

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By:

Requested Turnaround Time: 7-Day 10-Day

Due Date: _____

Rush Approval Required: 1-Day 3-Day 4-Day

Data Delivery: PDF EXCEL

Other: _____

CLP Like Data Pkg Required:

Email To: pjcornell@vlab.com; pjmcckintyre@vlab.com; lymphall@vlab.com; thecap@vlab.com

Fax To #: _____

39 Spruce Street
 East Longmeadow, MA 01028

#	NA	NA	NA	Grain Size	Proctor	Moisture	ANALYSIS REQUESTED	
1								

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
1	B34	11/13/18	13:00		X	S	U
2	B33	11/13/18	10:00		X	S	U
3	B37	11/16/18	11:00		X	S	U
4	B36	11/15/18	11:00		X	S	U
5	B33	11/13/18	13:00		X	S	U

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown



Relinquished by: (signature) _____ Date/Time: 11/13/18 11:00

Received by: (signature) _____ Date/Time: 11/13/18 11:00

Relinquished by: (signature) _____ Date/Time: 11/13/18

Received by: (signature) _____ Date/Time: 11/13/18

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: 11-13-18 5:30

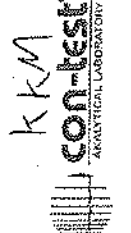
Project Entity: Government Municipality MWRA WRTA Other

Federal Z1 J School Chromatogram

City Brownfield MBTA Non Soxhlet

Special Requirement: MA MCP Required MA RCPC Required

MA State DW Required





Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	---
Sample ID:	---	Test Date:	11/20/18
Depth :	---	Test Id:	482246

Moisture Content of Soil and Rock - ASTM D2216

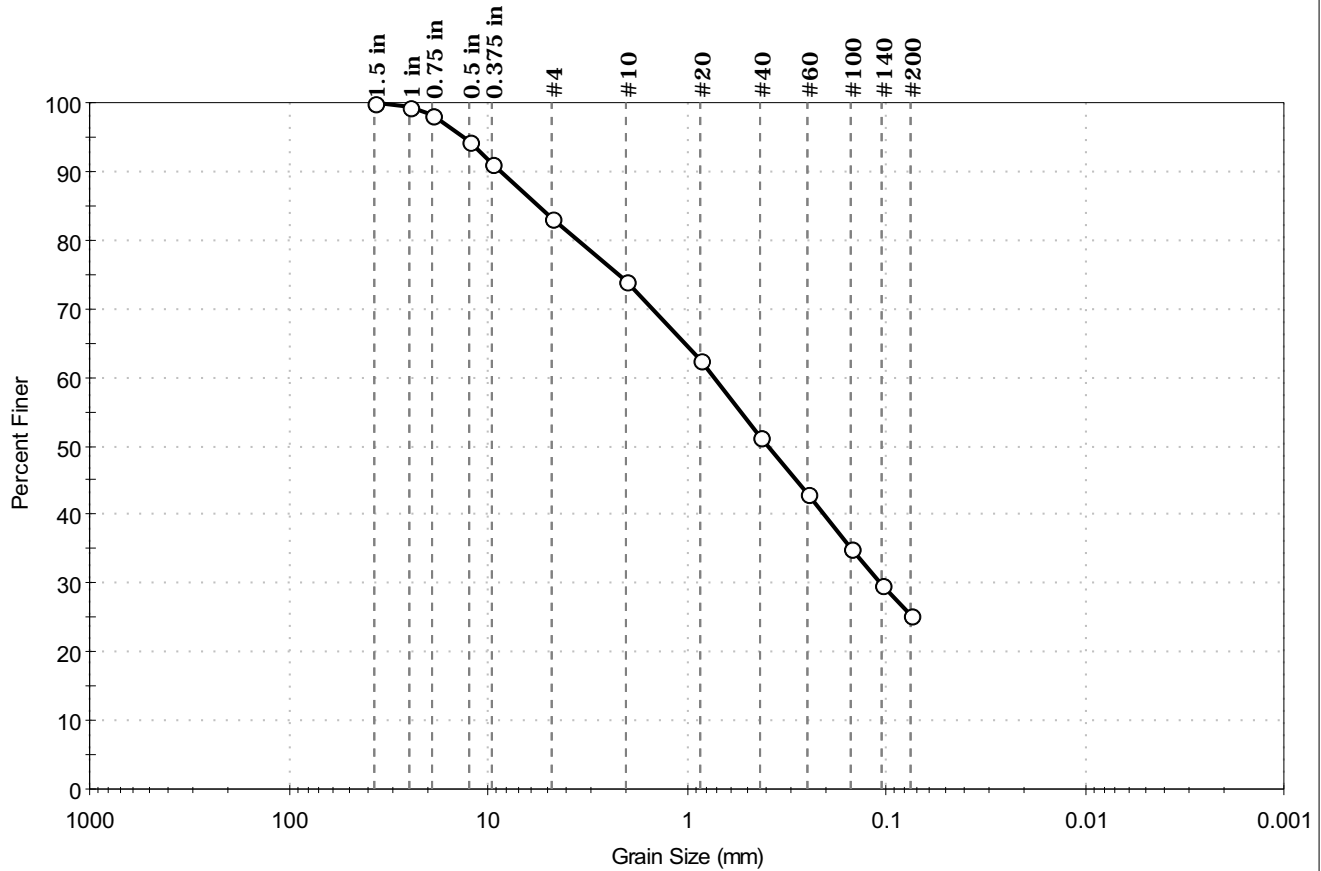
Boring ID	Sample ID	Depth	Description	Moisture Content, %
---	B33	---	Moist, olive yellow silty sand with gravel	11.0
---	B34	---	Moist, olive brown silty sand with gravel	12.0
---	B37	---	Moist, light olive brown silty sand with gravel	10.8
---	B38	---	Moist, light olive brown sand with silt	9.9
---	B39	---	Moist, light yellowish brown sand with silt	8.0

Notes: Temperature of Drying : 110° Celsius



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	bucket
Sample ID:	B33	Test Date:	11/28/18
Depth:	---	Test Id:	482233
Test Comment:	---		
Visual Description:	Moist, olive yellow silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	16.8	57.9	25.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	99		
0.75 in	19.00	98		
0.5 in	12.50	94		
0.375 in	9.50	91		
#4	4.75	83		
#10	2.00	74		
#20	0.85	63		
#40	0.42	51		
#60	0.25	43		
#100	0.15	35		
#140	0.11	30		
#200	0.075	25		

<u>Coefficients</u>	
D ₈₅ = 5.5437 mm	D ₃₀ = 0.1082 mm
D ₆₀ = 0.7273 mm	D ₁₅ = N/A
D ₅₀ = 0.3906 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

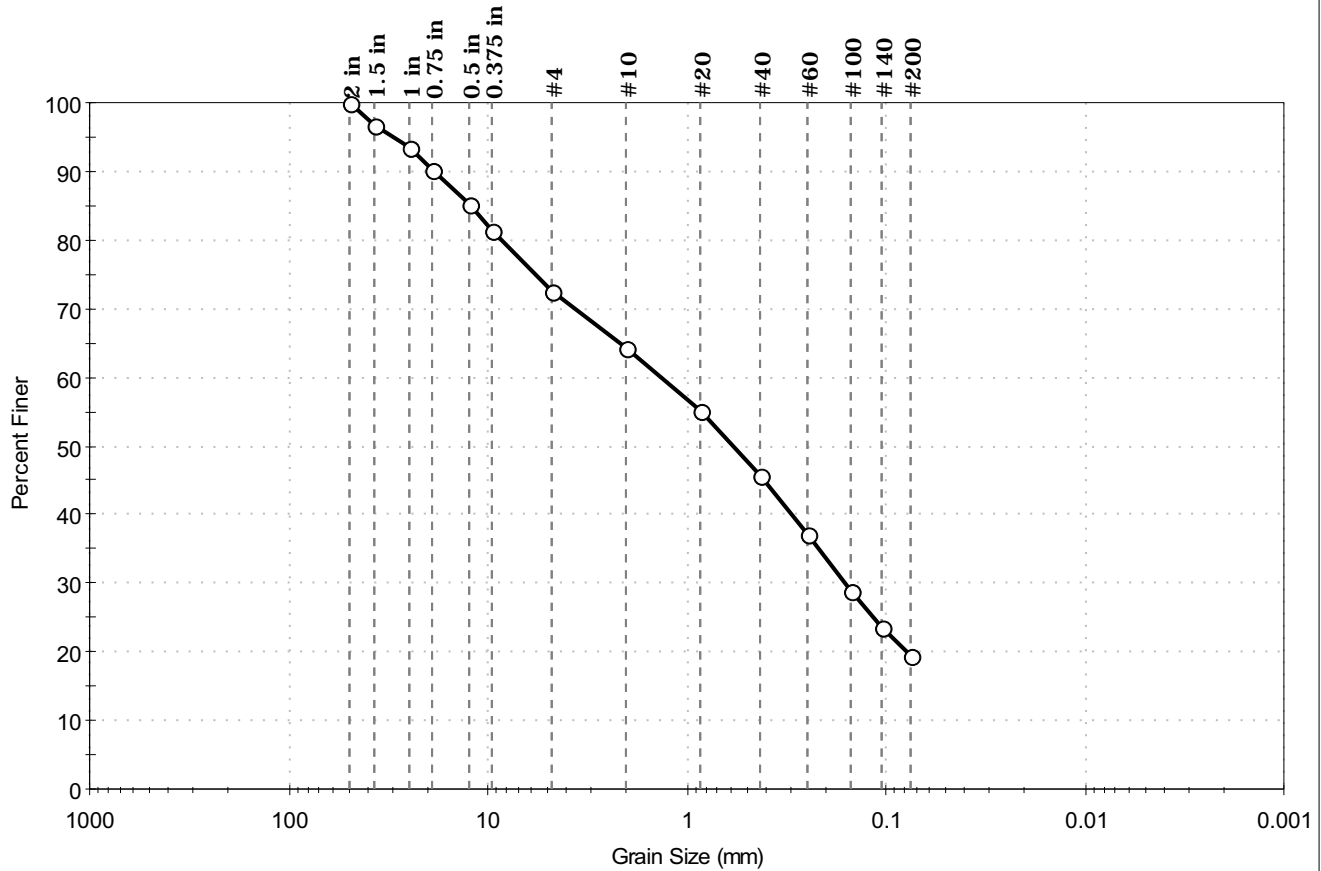
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	bucket
Sample ID:	B34	Test Date:	11/26/18
Depth:	---	Test Id:	482232
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand with gravel		
Sample Comment:	Sample contains organics		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	27.3	53.2	19.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	97		
1 in	25.00	94		
0.75 in	19.00	90		
0.5 in	12.50	85		
0.375 in	9.50	81		
#4	4.75	73		
#10	2.00	64		
#20	0.85	55		
#40	0.42	46		
#60	0.25	37		
#100	0.15	29		
#140	0.11	24		
#200	0.075	19		

<u>Coefficients</u>	
D ₈₅ = 12.3440 mm	D ₃₀ = 0.1606 mm
D ₆₀ = 1.3238 mm	D ₁₅ = N/A
D ₅₀ = 0.5783 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

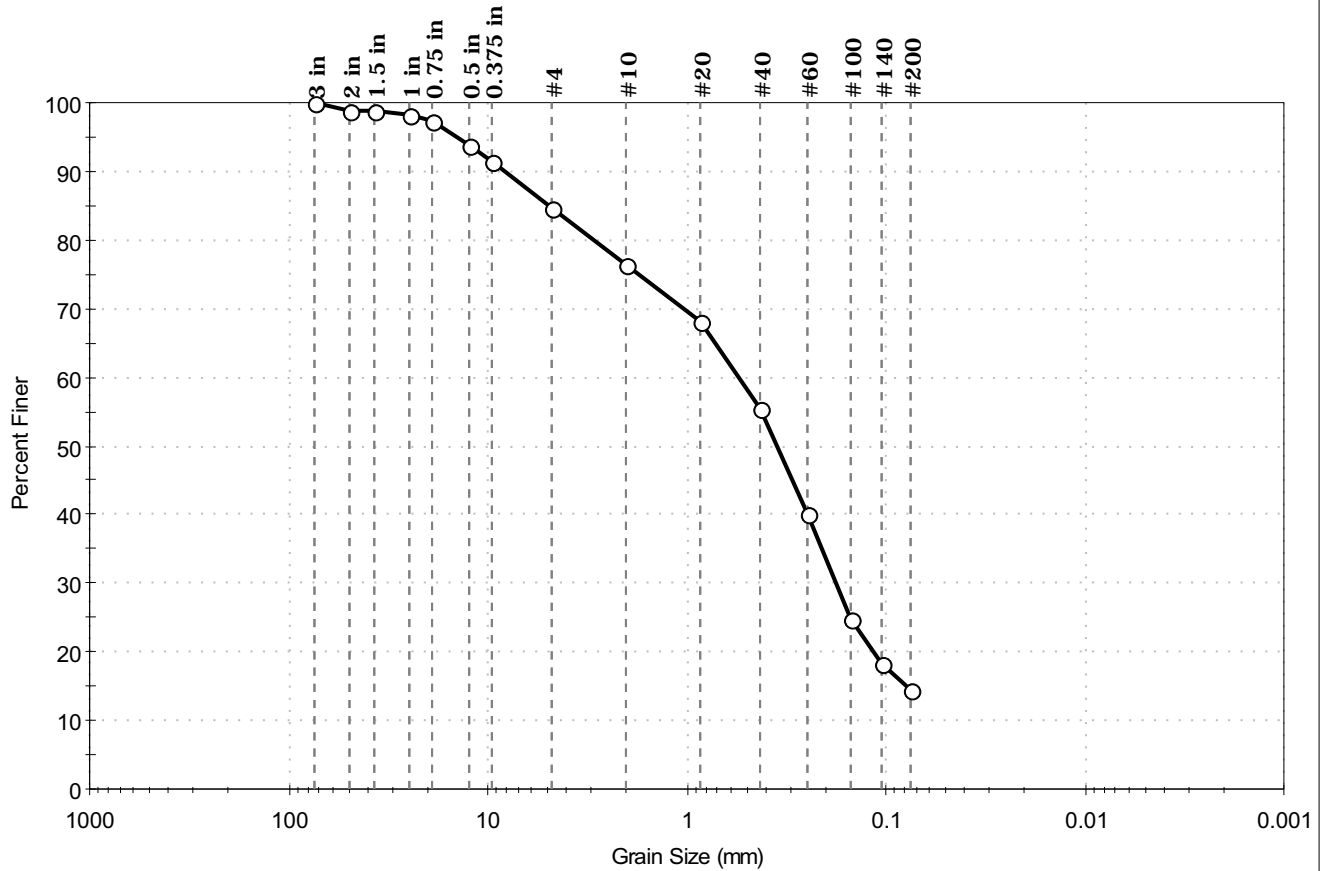
<u>Classification</u>	
<u>ASTM</u>	N/A
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-b (0))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	bucket
Sample ID:	B37	Test Date:	11/26/18
Depth:	---	Test Id:	482234
Test Comment:	---		
Visual Description:	Moist, light olive brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	15.3	70.4	14.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3 in	75.00	100		
2 in	50.00	99		
1.5 in	37.50	99		
1 in	25.00	98		
0.75 in	19.00	97		
0.5 in	12.50	94		
0.375 in	9.50	92		
#4	4.75	85		
#10	2.00	76		
#20	0.85	68		
#40	0.42	55		
#60	0.25	40		
#100	0.15	25		
#140	0.11	18		
#200	0.075	14		

<u>Coefficients</u>	
D ₈₅ = 4.8680 mm	D ₃₀ = 0.1786 mm
D ₆₀ = 0.5481 mm	D ₁₅ = 0.0796 mm
D ₅₀ = 0.3524 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

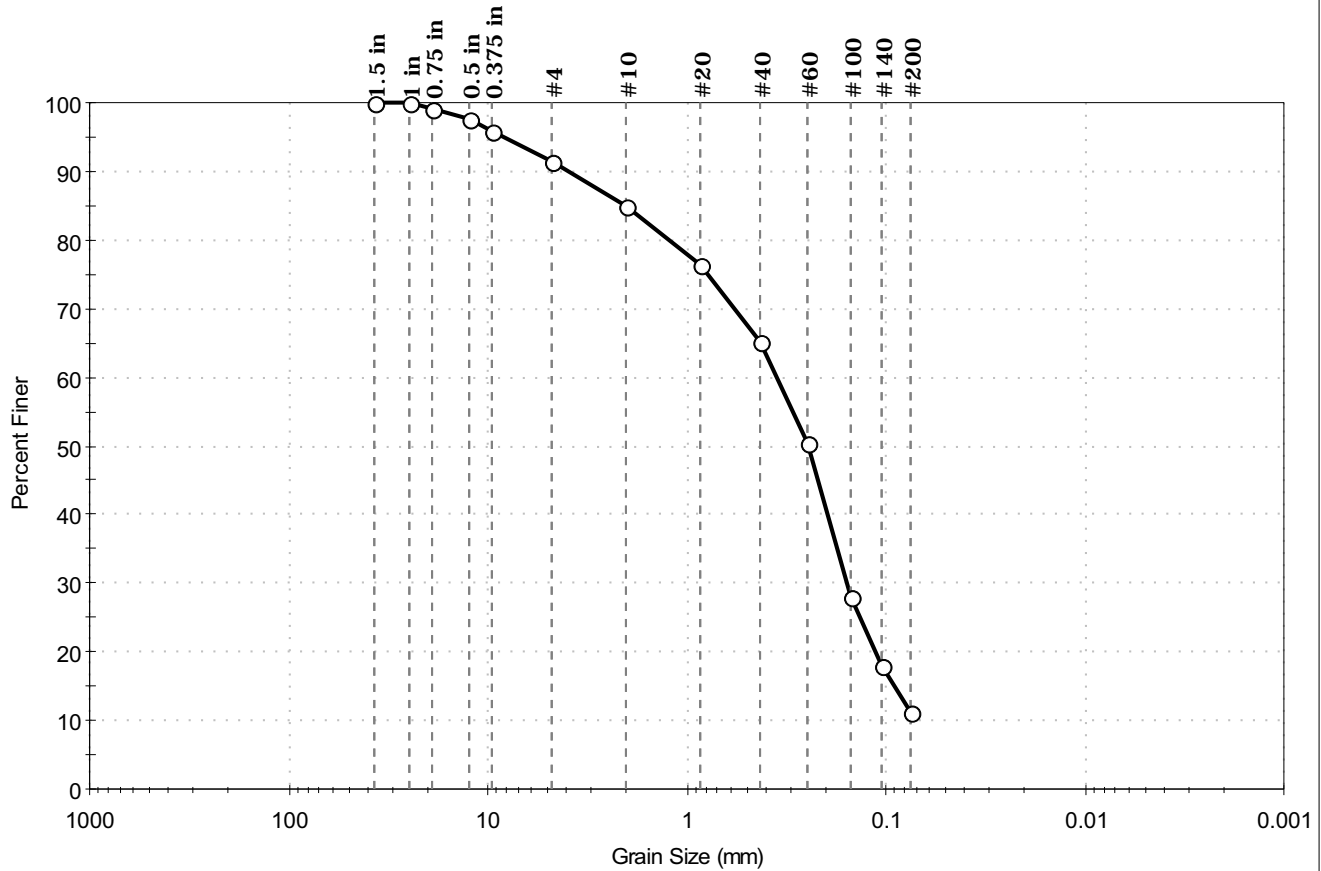
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	bucket
Sample ID:	B38	Test Date:	11/26/18
Depth:	---	Test Id:	482235
Test Comment:	---		
Visual Description:	Moist, light olive brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	8.5	80.4	11.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	98		
0.375 in	9.50	96		
#4	4.75	92		
#10	2.00	85		
#20	0.85	76		
#40	0.42	65		
#60	0.25	50		
#100	0.15	28		
#140	0.11	18		
#200	0.075	11		

<u>Coefficients</u>	
D ₈₅ = 2.0004 mm	D ₃₀ = 0.1573 mm
D ₆₀ = 0.3523 mm	D ₁₅ = 0.0911 mm
D ₅₀ = 0.2477 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

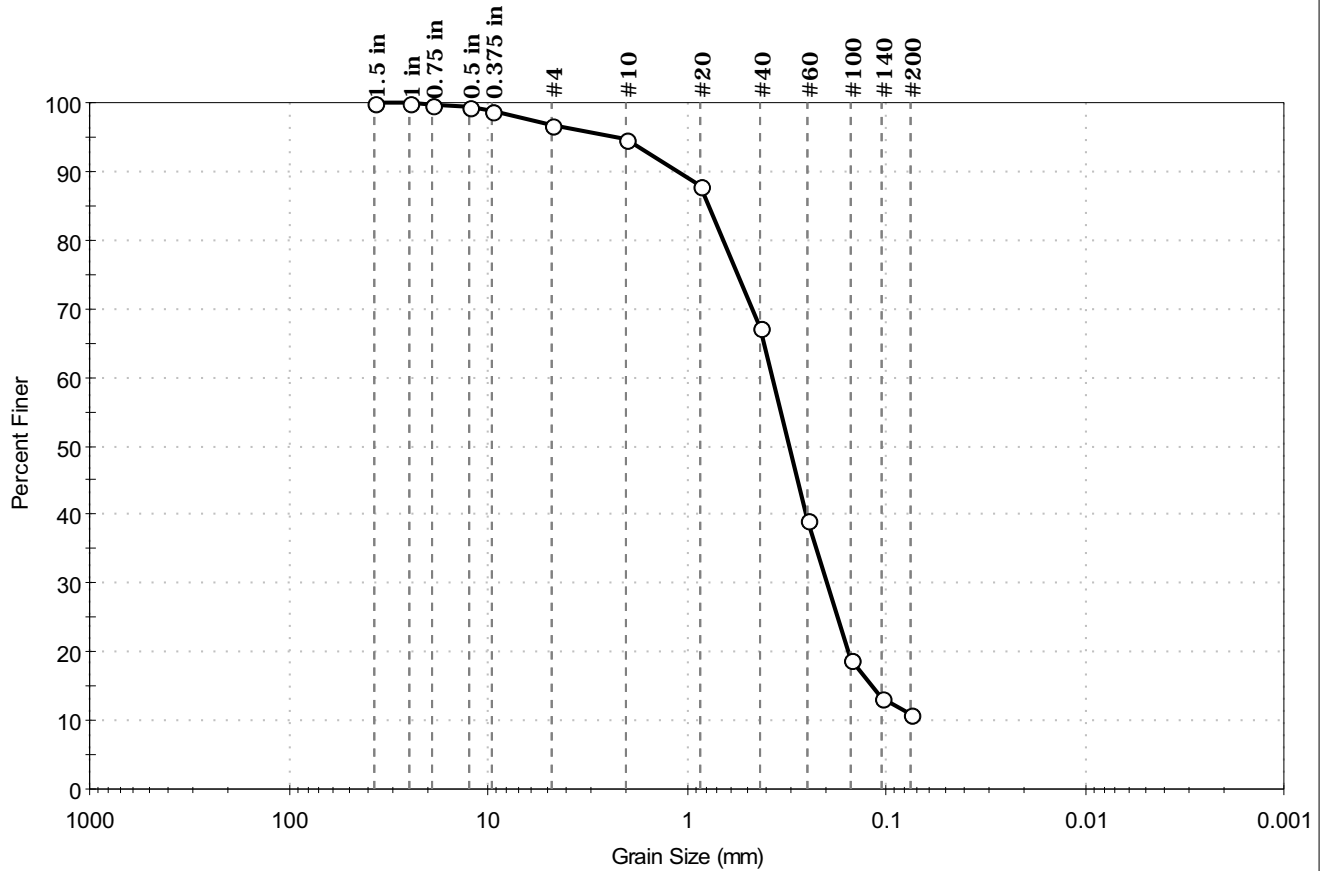
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	ckg
Location:	Sudbury, MA	Checked By:	bfs
Boring ID:	---	Sample Type:	bucket
Sample ID:	B39	Test Date:	11/26/18
Depth:	---	Test Id:	482236
Test Comment:	---		
Visual Description:	Moist, light yellowish brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	3.1	86.0	10.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	100		
0.5 in	12.50	99		
0.375 in	9.50	99		
#4	4.75	97		
#10	2.00	95		
#20	0.85	88		
#40	0.42	67		
#60	0.25	39		
#100	0.15	19		
#140	0.11	13		
#200	0.075	11		

Coefficients	
D ₈₅ = 0.7731 mm	D ₃₀ = 0.1978 mm
D ₆₀ = 0.3695 mm	D ₁₅ = 0.1175 mm
D ₅₀ = 0.3058 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

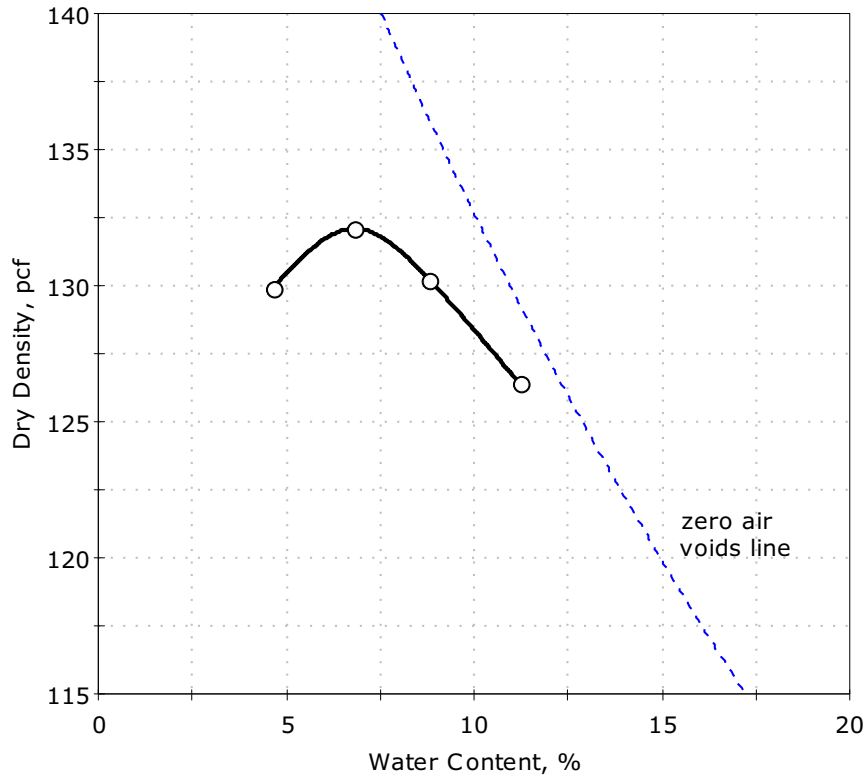
Classification	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	jsc
Boring ID:	---	Test Date:	11/28/18	Test Id:	482238
Sample ID:	B33	Visual Description:	Moist, olive yellow silty sand with gravel		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	129.9	132.1	130.3	126.4
Moisture Content, %	4.7	6.8	8.8	11.2

Method : C

Preparation : DRY

As received Moisture : 11 %

Rammer : Mechanical

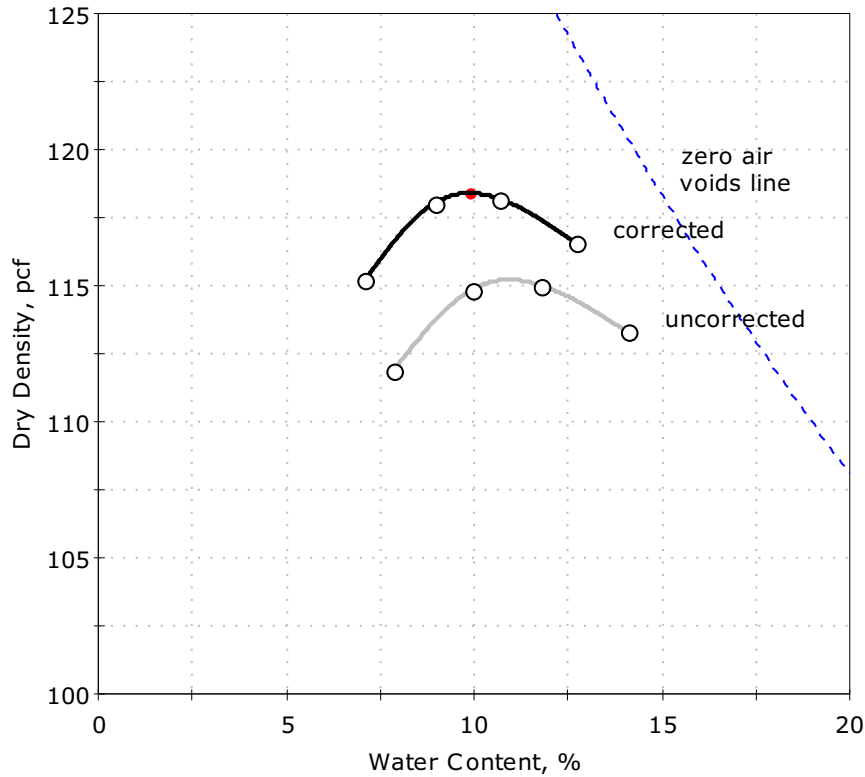
Zero voids line based on assumed specific gravity of 2.70

Maximum Dry Density= 132.1 pcf
 Optimum Moisture= 6.8 %



Client:	Con-Test Analytical Lab	Project No:	GTX-308988
Project:	Eversource Transmission	Tested By:	cwd
Location:	Sudbury, MA	Checked By:	jsc
Boring ID:	---	Sample Type:	bucket
Sample ID:	B34	Test Date:	11/27/18
Depth:	---	Test Id:	482237
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand with gravel		
Sample Comment:	Sample contains organics		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	111.9	114.9	115.0	113.3
Moisture Content, %	7.8	9.9	11.8	14.1

Method : C

Preparation : DRY

As received Moisture : 12 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 115.2 pcf
 Optimum Moisture= 10.9 %

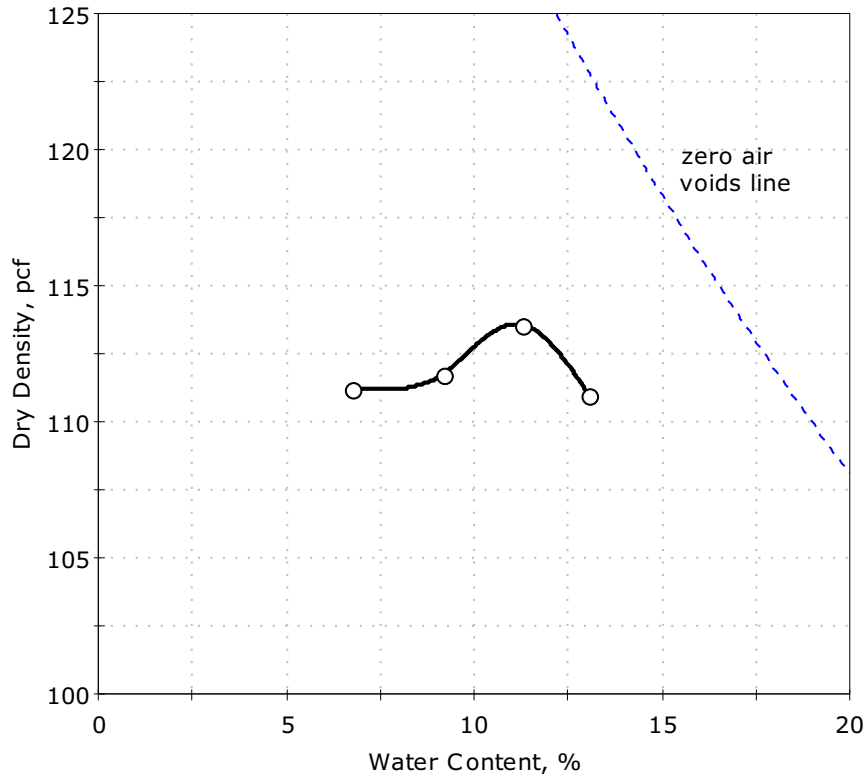
Oversize Correction (10% > 3/4 inch Sieve)

Corrected Maximum Dry Density= 118.4 pcf
 Corrected Optimum Moisture= 9.9 %
 Assumed Average Bulk Specific Gravity = 2.55



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission				
Location:	Sudbury, MA				
Boring ID:	---	Sample Type:	bucket	Tested By:	cwd
Sample ID:	B37	Test Date:	11/28/18	Checked By:	jsc
Depth :	---	Test Id:	482239		
Test Comment:	---				
Visual Description:	Moist, light olive brown silty sand with gravel				
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	111.2	111.7	113.6	111.0
Moisture Content, %	6.8	9.2	11.2	13.1

Method : C

Preparation : DRY

As received Moisture : 11 %

Rammer : Mechanical

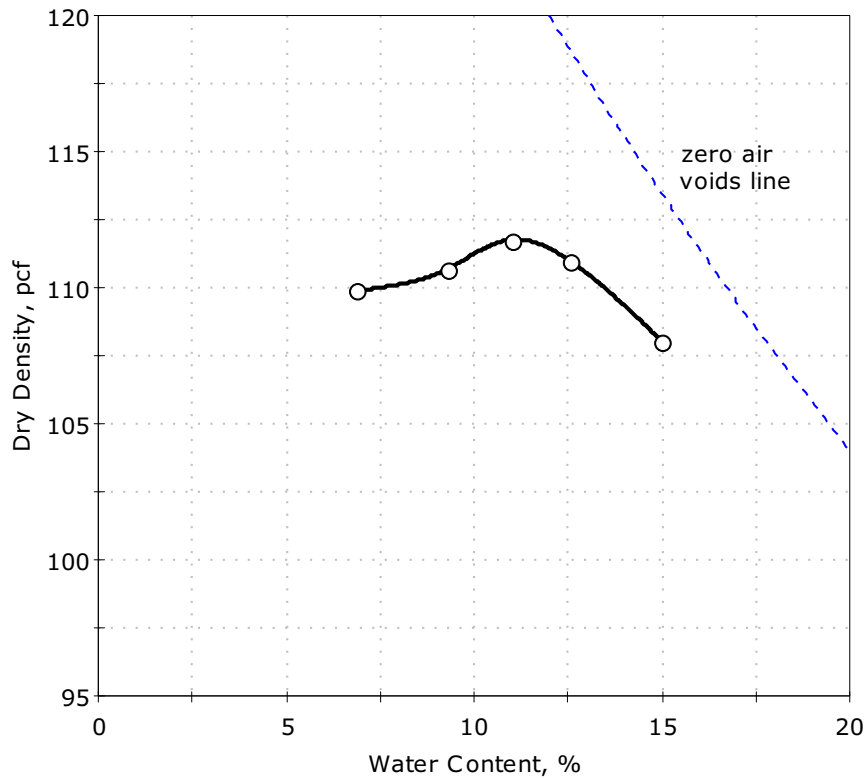
Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 113.6 pcf
 Optimum Moisture= 11.1 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308988	
Project:	Eversource Transmission		Tested By:	cwd	
Location:	Sudbury, MA	Sample Type:	bucket	Checked By:	jsc
Boring ID:	---	Test Date:	11/24/18	Test Id:	482240
Sample ID:	B38	Visual Description:	Moist, light olive brown sand with silt		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	109.9	110.7	111.8	111.0	108.1
Moisture Content, %	6.9	9.3	11.0	12.5	15.0

Method : B

Preparation : DRY

As received Moisture : 10 %

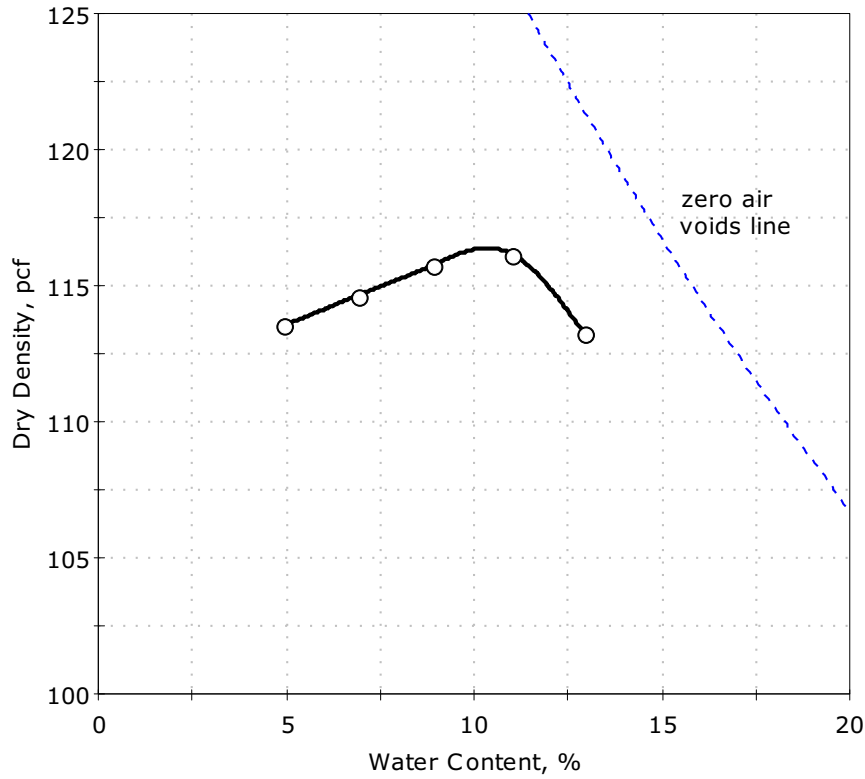
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.5

Maximum Dry Density= 111.8 pcf
 Optimum Moisture= 11.1 %

Client:	Con-Test Analytical Lab		
Project:	Eversource Transmission		
Location:	Sudbury, MA	Project No:	GTX-308988
Boring ID:	---	Sample Type:	bucket
Sample ID:	B39	Test Date:	11/24/18
Depth :	---	Test Id:	482241
Test Comment:	---		
Visual Description:	Moist, light yellowish brown sand with silt		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	113.5	114.7	115.7	116.2	113.2
Moisture Content, %	4.9	6.9	8.9	11.0	12.9

Method : A

Preparation : DRY

As received Moisture : 8 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.6

Maximum Dry Density= 116.4 pcf
Optimum Moisture= 10.4 %

November 21, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K0569

Enclosed are results of analyses for samples received by the laboratory on November 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0569

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB33	18K0569-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB36	18K0569-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 11/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0569

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB35	18K0569-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB34	18K0569-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 11/16/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34]

SW-846 8151A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K0569-03[SB35], 18K0569-04[SB34]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**2,4-DB**

B217251-BS1, B217251-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

B217251-MS1, B217251-MSD1

Dinoseb [2C]

B217251-MS1, B217251-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217251-MS1, B217251-MSD1

Dinoseb [2C]

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217251-MS1, B217251-MSD1

SW-846 8260C

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B217293-BS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217293-BLK1, B217293-BS1, B217293-BSD1

Bromomethane

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217293-BLK1, B217293-BS1, B217293-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217293-BLK1, B217293-BS1, B217293-BSD1

Tetrahydrofuran

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217293-BLK1, B217293-BS1, B217293-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217293-BLK1, B217293-BS1, B217293-BSD1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B217293-BS1, B217293-BSD1

SW-846 8270D**Qualifications:****V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

Aniline

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

Benzo(g,h,i)perylene

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

Pyridine

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

Aniline

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217204-BLK1, B217204-BS1, B217204-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18K0569-01[SB33], 18K0569-02[SB36], 18K0569-03[SB35], 18K0569-04[SB34], B217354-DUP1

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SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB33

Sampled: 11/7/2018 14:36

Sample ID: 18K0569-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1	R-05, V-34	SW-846 8260C	11/15/18	11/15/18 9:42	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Chlorodibromomethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Chloroethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Diethyl Ether	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Diisopropyl Ether (DIPE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,4-Dioxane	ND	0.076	mg/Kg dry	1	R-05, V-16	SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,4-Dioxane (SIM)	ND	0.030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB33

Sampled: 11/7/2018 14:36

Sample ID: 18K0569-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Methylene Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Naphthalene	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1	V-16	SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2,3-Trichlorobenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 9:42	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		99.6	70-130				11/15/18	9:42	
Toluene-d8		97.2	70-130				11/15/18	9:42	
4-Bromofluorobenzene		97.6	70-130				11/15/18	9:42	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB33

Sampled: 11/7/2018 14:36

Sample ID: 18K0569-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Aniline	ND	0.42	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
4-Chloroaniline	ND	0.82	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1	V-19	SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:36

Field Sample #: SB33

Sample ID: 18K0569-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Pyridine	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 13:26	BGL
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:26	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		52.4	30-130					11/15/18 13:26	
Phenol-d6		56.1	30-130					11/15/18 13:26	
Nitrobenzene-d5		58.2	30-130					11/15/18 13:26	
2-Fluorobiphenyl		50.6	30-130					11/15/18 13:26	
2,4,6-Tribromophenol		73.6	30-130					11/15/18 13:26	
p-Terphenyl-d14		62.5	30-130					11/15/18 13:26	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB33

Sampled: 11/7/2018 14:36

Sample ID: 18K0569-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endrin aldehyde [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:22	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.7	30-150					11/15/18 20:22	
Decachlorobiphenyl [2]		84.7	30-150					11/15/18 20:22	
Tetrachloro-m-xylene [1]		74.1	30-150					11/15/18 20:22	
Tetrachloro-m-xylene [2]		71.1	30-150					11/15/18 20:22	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB33

Sampled: 11/7/2018 14:36

Sample ID: 18K0569-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:01	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.5	30-150					11/16/18 17:01	
Decachlorobiphenyl [2]		91.7	30-150					11/16/18 17:01	
Tetrachloro-m-xylene [1]		84.5	30-150					11/16/18 17:01	
Tetrachloro-m-xylene [2]		87.2	30-150					11/16/18 17:01	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:36

Field Sample #: SB33

Sample ID: 18K0569-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
2,4-DB [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
2,4,5-TP (Silvex) [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
2,4,5-T [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
Dalalpon [1]	ND	78	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
Dicamba [1]	ND	3.1	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
Dichloroprop [1]	ND	31	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
Dinoseb [1]	ND	16	µg/kg dry	1	V-20	SW-846 8151A	11/15/18	11/17/18 18:44	JMB
MCPA [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
MCPP [1]	ND	3100	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 18:44	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	86.3	30-150						11/17/18 18:44	
2,4-Dichlorophenylacetic acid [2]	87.0	30-150						11/17/18 18:44	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:36

Field Sample #: SB33

Sample ID: 18K0569-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	12	10	mg/Kg dry	1		SW-846 8100 Modified	11/14/18	11/17/18 17:51	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		45.8	40-140					11/17/18 17:51	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:36

Field Sample #: SB33

Sample ID: 18K0569-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Arsenic	4.4	2.1	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Barium	19	2.1	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Beryllium	0.21	0.21	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Chromium	9.3	0.41	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Lead	3.3	0.62	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Mercury	ND	0.031	mg/Kg dry	1		SW-846 7471B	11/20/18	11/21/18 10:09	AJL
Nickel	5.1	0.41	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010D	11/16/18	11/20/18 14:44	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Vanadium	12	0.83	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW
Zinc	10	0.83	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:25	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:36

Field Sample #: SB33

Sample ID: 18K0569-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/15/18	11/15/18 16:50	DJM
pH @19.6°C	5.9		pH Units	1	H-03	SW-846 9045C	11/15/18	11/15/18 20:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/14/18	11/15/18 14:15	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/15/18	11/15/18 13:30	DJM
Specific conductance	2.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/21/18	11/21/18 13:23	MMH
% Solids	80.6		% Wt	1		SM 2540G	11/19/18	11/20/18 8:41	KMG

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB36

Sampled: 11/7/2018 14:45

Sample ID: 18K0569-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Bromoform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Bromomethane	ND	0.0083	mg/Kg dry	1	R-05, V-34	SW-846 8260C	11/15/18	11/15/18 10:09	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Carbon Disulfide	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Chlorodibromomethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Chloroethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Chloromethane	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2-Dibromoethane (EDB)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,3-Dichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
2,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
cis-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
trans-1,3-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Diethyl Ether	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Diisopropyl Ether (DIPE)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,4-Dioxane	ND	0.083	mg/Kg dry	1	R-05, V-16	SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,4-Dioxane (SIM)	ND	0.033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB36

Sampled: 11/7/2018 14:45

Sample ID: 18K0569-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Methylene Chloride	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Naphthalene	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Tetrahydrofuran	ND	0.0083	mg/Kg dry	1	V-16	SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Vinyl Chloride	ND	0.0083	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:09	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		98.3	70-130					11/15/18 10:09	
Toluene-d8		96.4	70-130					11/15/18 10:09	
4-Bromofluorobenzene		97.6	70-130					11/15/18 10:09	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB36

Sampled: 11/7/2018 14:45

Sample ID: 18K0569-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Aniline	ND	0.38	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-19	SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:45

Field Sample #: SB36

Sample ID: 18K0569-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Pyridine	ND	0.38	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 13:52	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 13:52	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		65.9	30-130					11/15/18 13:52	
Phenol-d6		70.4	30-130					11/15/18 13:52	
Nitrobenzene-d5		70.6	30-130					11/15/18 13:52	
2-Fluorobiphenyl		57.4	30-130					11/15/18 13:52	
2,4,6-Tribromophenol		84.0	30-130					11/15/18 13:52	
p-Terphenyl-d14		71.7	30-130					11/15/18 13:52	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB36

Sampled: 11/7/2018 14:45

Sample ID: 18K0569-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 20:49	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.4	30-150					11/15/18 20:49	
Decachlorobiphenyl [2]		87.4	30-150					11/15/18 20:49	
Tetrachloro-m-xylene [1]		79.2	30-150					11/15/18 20:49	
Tetrachloro-m-xylene [2]		75.2	30-150					11/15/18 20:49	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB36

Sampled: 11/7/2018 14:45

Sample ID: 18K0569-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:14	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150					11/16/18 17:14	
Decachlorobiphenyl [2]		90.6	30-150					11/16/18 17:14	
Tetrachloro-m-xylene [1]		84.8	30-150					11/16/18 17:14	
Tetrachloro-m-xylene [2]		86.6	30-150					11/16/18 17:14	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:45

Field Sample #: SB36

Sample ID: 18K0569-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
2,4-DB [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
2,4,5-T [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
Dalalpon [1]	ND	70	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
Dinoseb [1]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	11/15/18	11/17/18 19:23	JMB
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	11/15/18	11/17/18 19:23	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	77.7	30-150						11/17/18 19:23	
2,4-Dichlorophenylacetic acid [2]	74.2	30-150						11/17/18 19:23	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:45

Field Sample #: SB36

Sample ID: 18K0569-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	18	9.2	mg/Kg dry	1		SW-846 8100 Modified	11/14/18	11/17/18 18:31	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		53.2	40-140					11/17/18 18:31	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:45

Field Sample #: SB36

Sample ID: 18K0569-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Arsenic	21	1.9	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Barium	19	1.9	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Beryllium	0.21	0.19	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Cadmium	0.41	0.19	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Chromium	8.8	0.37	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Lead	7.9	0.56	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/20/18	11/21/18 10:11	AJL
Nickel	4.7	0.37	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010D	11/16/18	11/20/18 14:49	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Vanadium	11	0.74	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW
Zinc	10	0.74	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:31	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:45

Field Sample #: SB36

Sample ID: 18K0569-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/15/18	11/15/18 16:50	DJM
pH @19.7°C	5.4		pH Units	1	H-03	SW-846 9045C	11/15/18	11/15/18 20:32	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/14/18	11/15/18 14:15	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/15/18	11/15/18 13:30	DJM
Specific conductance	2.2	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/21/18	11/21/18 13:23	MMH
% Solids	89.0		% Wt	1		SM 2540G	11/19/18	11/20/18 8:42	KMG

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB35

Sampled: 11/7/2018 14:50

Sample ID: 18K0569-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Benzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Bromobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Bromochloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Bromodichloromethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Bromoform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05, V-34	SW-846 8260C	11/15/18	11/15/18 10:39	MFF
2-Butanone (MEK)	ND	0.050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
n-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
sec-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
tert-Butylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Carbon Disulfide	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Chlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Chloroform	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
2-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
4-Chlorotoluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Dibromomethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,3-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,4-Dichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2-Dichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1-Dichloroethylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
cis-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
trans-1,2-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
2,2-Dichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1-Dichloropropene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Diethyl Ether	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1	R-05, V-16	SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,4-Dioxane (SIM)	ND	0.050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB35

Sampled: 11/7/2018 14:50

Sample ID: 18K0569-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Hexachlorobutadiene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
2-Hexanone (MBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Isopropylbenzene (Cumene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Naphthalene	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Tetrachloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Toluene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2,3-Trichlorobenzene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2,4-Trichlorobenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1,1-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,1,2-Trichloroethane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Trichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2,3-Trichloropropane	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,2,4-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
m+p Xylene	ND	0.0050	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
o-Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 10:39	MFF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		99.3	70-130					11/15/18 10:39	
Toluene-d8		97.3	70-130					11/15/18 10:39	
4-Bromofluorobenzene		97.3	70-130					11/15/18 10:39	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB35

Sampled: 11/7/2018 14:50

Sample ID: 18K0569-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Aniline	ND	0.40	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Anthracene	0.35	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Benzo(a)anthracene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Benzo(a)pyrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Benzo(b)fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Benzo(g,h,i)perylene	0.20	0.20	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Benzo(k)fluoranthene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
4-Chloroaniline	ND	0.78	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Chrysene	0.51	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1	V-19	SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Fluoranthene	1.4	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Indeno(1,2,3-cd)pyrene	0.23	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Naphthalene	0.25	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Phenanthrene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Pyrene	1.1	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Pyridine	ND	0.40	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 14:19	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:19	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	73.7		30-130			11/15/18 14:19			
Phenol-d6	77.2		30-130			11/15/18 14:19			
Nitrobenzene-d5	74.7		30-130			11/15/18 14:19			
2-Fluorobiphenyl	63.9		30-130			11/15/18 14:19			
2,4,6-Tribromophenol	84.9		30-130			11/15/18 14:19			
p-Terphenyl-d14	73.8		30-130			11/15/18 14:19			

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endrin aldehyde [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.2	30-150					11/15/18 21:16	
Decachlorobiphenyl [2]		91.8	30-150					11/15/18 21:16	
Tetrachloro-m-xylene [1]		72.5	30-150					11/15/18 21:16	
Tetrachloro-m-xylene [2]		67.9	30-150					11/15/18 21:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB35

Sampled: 11/7/2018 14:50

Sample ID: 18K0569-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.0	30-150					11/16/18 17:26	
Decachlorobiphenyl [2]		86.3	30-150					11/16/18 17:26	
Tetrachloro-m-xylene [1]		81.2	30-150					11/16/18 17:26	
Tetrachloro-m-xylene [2]		82.8	30-150					11/16/18 17:26	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
2,4-DB [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
2,4,5-TP (Silvex) [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
2,4,5-T [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
Dalalpon [1]	ND	380	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
Dicamba [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
Dichloroprop [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
Dinoseb [1]	ND	75	µg/kg dry	5	V-20	SW-846 8151A	11/15/18	11/17/18 20:02	JMB
MCPA [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
MCPP [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:02	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	97.3	30-150						11/17/18 20:02	
2,4-Dichlorophenylacetic acid [2]	101	30-150						11/17/18 20:02	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	180	9.8	mg/Kg dry	1		SW-846 8100 Modified	11/14/18	11/17/18 19:51	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		61.4	40-140					11/17/18 19:51	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Arsenic	2.5	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Barium	16	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Beryllium	0.23	0.20	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Chromium	9.2	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Lead	6.9	0.60	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	11/20/18	11/21/18 10:13	AJL
Nickel	7.7	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/20/18 14:55	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Vanadium	10	0.80	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW
Zinc	16	0.80	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:37	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:50

Field Sample #: SB35

Sample ID: 18K0569-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/15/18	11/15/18 16:50	DJM
pH @19.7°C	6.3		pH Units	1	H-03	SW-846 9045C	11/15/18	11/15/18 20:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/14/18	11/15/18 14:15	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/15/18	11/15/18 13:30	DJM
Specific conductance	3.1	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/21/18	11/21/18 13:23	MMH
% Solids	83.3		% Wt	1		SM 2540G	11/19/18	11/20/18 8:42	KMG

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1	R-05, V-34	SW-846 8260C	11/15/18	11/15/18 11:06	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Chlorodibromomethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Chloroethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2-Dibromoethane (EDB)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Diethyl Ether	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Diisopropyl Ether (DIPE)	ND	0.00069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,4-Dioxane	ND	0.069	mg/Kg dry	1	R-05, V-16	SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,4-Dioxane (SIM)	ND	0.028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Methylene Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Naphthalene	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1	V-16	SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2,3-Trichlorobenzene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	11/15/18	11/15/18 11:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	11/15/18 11:06
Toluene-d8	97.4	70-130	11/15/18 11:06
4-Bromofluorobenzene	97.7	70-130	11/15/18 11:06

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Aniline	ND	0.41	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
4-Chloroaniline	ND	0.79	mg/Kg dry	1	V-05, V-34	SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4-Dinitrophenol	ND	0.79	mg/Kg dry	1	V-19	SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:40

Field Sample #: SB34

Sample ID: 18K0569-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
4-Nitrophenol	ND	0.79	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Pyridine	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	11/14/18	11/15/18 14:45	BGL
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/14/18	11/15/18 14:45	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.4	30-130					11/15/18 14:45	
Phenol-d6		64.0	30-130					11/15/18 14:45	
Nitrobenzene-d5		66.8	30-130					11/15/18 14:45	
2-Fluorobiphenyl		58.0	30-130					11/15/18 14:45	
2,4,6-Tribromophenol		77.7	30-130					11/15/18 14:45	
p-Terphenyl-d14		66.1	30-130					11/15/18 14:45	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/14/18	11/15/18 21:43	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.8	30-150					11/15/18 21:43	
Decachlorobiphenyl [2]		86.1	30-150					11/15/18 21:43	
Tetrachloro-m-xylene [1]		84.4	30-150					11/15/18 21:43	
Tetrachloro-m-xylene [2]		80.6	30-150					11/15/18 21:43	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	11/15/18	11/16/18 17:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.8	30-150					11/16/18 17:39	
Decachlorobiphenyl [2]		95.9	30-150					11/16/18 17:39	
Tetrachloro-m-xylene [1]		87.6	30-150					11/16/18 17:39	
Tetrachloro-m-xylene [2]		89.9	30-150					11/16/18 17:39	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Field Sample #: SB34

Sampled: 11/7/2018 14:40

Sample ID: 18K0569-04

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
2,4-DB [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
2,4,5-TP (Silvex) [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
2,4,5-T [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
Dalalpon [1]	ND	380	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
Dicamba [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
Dichloroprop [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
Dinoseb [1]	ND	76	µg/kg dry	5	V-20	SW-846 8151A	11/15/18	11/17/18 20:42	JMB
MCPA [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
MCPP [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/15/18	11/17/18 20:42	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	89.5	30-150						11/17/18 20:42	
2,4-Dichlorophenylacetic acid [2]	101	30-150						11/17/18 20:42	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:40

Field Sample #: SB34

Sample ID: 18K0569-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	22	10	mg/Kg dry	1		SW-846 8100 Modified	11/14/18	11/17/18 18:11	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		52.9	40-140					11/17/18 18:11	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:40

Field Sample #: SB34

Sample ID: 18K0569-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Arsenic	2.9	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Barium	16	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Beryllium	0.24	0.20	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Chromium	8.2	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Lead	6.8	0.60	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	11/20/18	11/21/18 10:14	AJL
Nickel	4.4	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	11/16/18	11/20/18 15:10	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Vanadium	10	0.80	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW
Zinc	27	0.80	mg/Kg dry	1		SW-846 6010D	11/16/18	11/19/18 17:42	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0569

Date Received: 11/13/2018

Sampled: 11/7/2018 14:40

Field Sample #: SB34

Sample ID: 18K0569-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/15/18	11/15/18 16:50	DJM
pH @19.8°C	4.9		pH Units	1	H-03	SW-846 9045C	11/15/18	11/15/18 20:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/14/18	11/15/18 14:15	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/15/18	11/15/18 13:30	DJM
Specific conductance	7.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/21/18	11/21/18 13:23	MMH
% Solids	82.4		% Wt	1		SM 2540G	11/19/18	11/20/18 8:42	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0569-01 [SB33]	B217587	11/19/18
18K0569-02 [SB36]	B217587	11/19/18
18K0569-03 [SB35]	B217587	11/19/18
18K0569-04 [SB34]	B217587	11/19/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0569-01 [SB33]	B217751	1.00	11/21/18
18K0569-02 [SB36]	B217751	1.00	11/21/18
18K0569-03 [SB35]	B217751	1.00	11/21/18
18K0569-04 [SB34]	B217751	1.00	11/21/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0569-01 [SB33]	B217341	50.0	11/15/18
18K0569-02 [SB36]	B217341	50.0	11/15/18
18K0569-03 [SB35]	B217341	50.0	11/15/18
18K0569-04 [SB34]	B217341	50.0	11/15/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217443	1.50	50.0	11/16/18
18K0569-02 [SB36]	B217443	1.52	50.0	11/16/18
18K0569-03 [SB35]	B217443	1.51	50.0	11/16/18
18K0569-04 [SB34]	B217443	1.51	50.0	11/16/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217633	0.600	50.0	11/20/18
18K0569-02 [SB36]	B217633	0.604	50.0	11/20/18
18K0569-03 [SB35]	B217633	0.615	50.0	11/20/18
18K0569-04 [SB34]	B217633	0.601	50.0	11/20/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217211	10.6	10.0	11/14/18
18K0569-02 [SB36]	B217211	10.4	10.0	11/14/18
18K0569-03 [SB35]	B217211	10.7	10.0	11/14/18
18K0569-04 [SB34]	B217211	10.6	10.0	11/14/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217320	10.6	10.0	11/15/18
18K0569-02 [SB36]	B217320	10.1	10.0	11/15/18
18K0569-03 [SB35]	B217320	10.8	10.0	11/15/18
18K0569-04 [SB34]	B217320	10.2	10.0	11/15/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217216	30.0	1.00	11/14/18
18K0569-02 [SB36]	B217216	30.4	1.00	11/14/18
18K0569-03 [SB35]	B217216	30.6	1.00	11/14/18
18K0569-04 [SB34]	B217216	30.3	1.00	11/14/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217251	20.0	5.00	11/15/18
18K0569-02 [SB36]	B217251	20.0	5.00	11/15/18
18K0569-03 [SB35]	B217251	20.0	5.00	11/15/18
18K0569-04 [SB34]	B217251	20.0	5.00	11/15/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217293	8.20	10.0	11/15/18
18K0569-02 [SB36]	B217293	6.78	10.0	11/15/18
18K0569-03 [SB35]	B217293	4.84	10.0	11/15/18
18K0569-04 [SB34]	B217293	8.74	10.0	11/15/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217204	30.0	1.00	11/14/18
18K0569-02 [SB36]	B217204	30.4	1.00	11/14/18
18K0569-03 [SB35]	B217204	30.6	1.00	11/14/18
18K0569-04 [SB34]	B217204	30.3	1.00	11/14/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217174	25.5	250	11/14/18
18K0569-02 [SB36]	B217174	25.1	250	11/14/18
18K0569-03 [SB35]	B217174	25.6	250	11/14/18
18K0569-04 [SB34]	B217174	25.6	250	11/14/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data**SW-846 9030A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0569-01 [SB33]	B217265	25.5	250	11/15/18
18K0569-02 [SB36]	B217265	25.1	250	11/15/18
18K0569-03 [SB35]	B217265	25.6	250	11/15/18
18K0569-04 [SB34]	B217265	25.6	250	11/15/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0569-01 [SB33]	B217354	20.0	11/15/18
18K0569-02 [SB36]	B217354	20.0	11/15/18
18K0569-03 [SB35]	B217354	20.0	11/15/18
18K0569-04 [SB34]	B217354	20.0	11/15/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217293 - SW-846 5035

Blank (B217293-BLK1)

Prepared & Analyzed: 11/15/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							R-05, V-16
1,4-Dioxane (SIM)	ND	0.040	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217293 - SW-846 5035

Blank (B217293-BLK1)

Prepared & Analyzed: 11/15/18

Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0519		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0483		mg/Kg wet	0.0500		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			

LCS (B217293-BS1)

Prepared & Analyzed: 11/15/18

Acetone	0.214	0.10	mg/Kg wet	0.200		107	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130			
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130			
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
Bromochloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromodichloromethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Bromoform	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromomethane	0.00716	0.010	mg/Kg wet	0.0200		35.8	* 40-160			L-07A, R-05, V-34 †
2-Butanone (MEK)	0.224	0.040	mg/Kg wet	0.200		112	40-160			†
n-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
sec-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130			
Carbon Disulfide	0.0156	0.0060	mg/Kg wet	0.0200		78.2	70-130			
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Chlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Chlorodibromomethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0148	0.010	mg/Kg wet	0.0200		74.2	70-130			
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			
Chloromethane	0.0166	0.010	mg/Kg wet	0.0200		83.2	40-160			†
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.1	70-130			
Dibromomethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217293 - SW-846 5035										
LCS (B217293-BS1)										
Prepared & Analyzed: 11/15/18										
1,4-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.0159	0.010	mg/Kg wet	0.0200		79.7	40-160			†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,2-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
1,1-Dichloroethylene	0.0158	0.0040	mg/Kg wet	0.0200		78.9	70-130			
cis-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
1,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130			
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
1,1-Dichloropropene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130			
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
Diethyl Ether	0.0162	0.010	mg/Kg wet	0.0200		81.1	70-130			
Diisopropyl Ether (DIPE)	0.0185	0.0010	mg/Kg wet	0.0200		92.5	70-130			
1,4-Dioxane	0.249	0.10	mg/Kg wet	0.200		124	40-160			R-05, V-16, V-36 †
1,4-Dioxane (SIM)	0.207	0.040	mg/Kg wet	0.200		104	40-160			†
Ethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Hexachlorobutadiene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
2-Hexanone (MBK)	0.219	0.020	mg/Kg wet	0.200		109	40-160			†
Isopropylbenzene (Cumene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.5	70-130			
Methylene Chloride	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
4-Methyl-2-pentanone (MIBK)	0.211	0.020	mg/Kg wet	0.200		106	40-160			†
Naphthalene	0.0192	0.0040	mg/Kg wet	0.0200		96.2	70-130			
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
Styrene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
1,1,1,2-Tetrachloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,1,2,2-Tetrachloroethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Tetrachloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Tetrahydrofuran	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
1,2,3-Trichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130			
1,1,2-Trichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Trichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Trichlorofluoromethane (Freon 11)	0.0158	0.010	mg/Kg wet	0.0200		79.1	70-130			
1,2,3-Trichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
1,3,5-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Vinyl Chloride	0.0161	0.010	mg/Kg wet	0.0200		80.3	70-130			
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.3	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217293 - SW-846 5035										
LCS Dup (B217293-BSD1)										
Prepared & Analyzed: 11/15/18										
Acetone	0.211	0.10	mg/Kg wet	0.200		105	40-160	1.35	20	†
tert-Amyl Methyl Ether (TAME)	0.0195	0.0010	mg/Kg wet	0.0200		97.3	70-130	2.08	20	
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	0.219	20	
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	0.514	20	
Bromochloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.67	20	
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	2.02	20	
Bromoform	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	7.11	20	
Bromomethane	0.0119	0.010	mg/Kg wet	0.0200		59.7	40-160	50.1 *	20	L-14, R-05, V-34 †
2-Butanone (MEK)	0.210	0.040	mg/Kg wet	0.200		105	40-160	6.73	20	†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	0.513	20	
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	0.602	20	
tert-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	1.16	20	
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.0200		93.8	70-130	0.00	20	
Carbon Disulfide	0.0186	0.0060	mg/Kg wet	0.0200		92.8	70-130	17.1	20	
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	3.40	20	
Chlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	0.712	20	
Chlorodibromomethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	1.51	20	
Chloroethane	0.0157	0.010	mg/Kg wet	0.0200		78.5	70-130	5.63	20	
Chloroform	0.0186	0.0040	mg/Kg wet	0.0200		92.9	70-130	2.66	20	
Chloromethane	0.0158	0.010	mg/Kg wet	0.0200		79.0	40-160	5.18	20	†
2-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	3.33	20	
4-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	0.716	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	13.2	20	
1,2-Dibromoethane (EDB)	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130	4.58	20	
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	3.51	20	
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	1.37	20	
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	2.33	20	
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	6.64	20	
Dichlorodifluoromethane (Freon 12)	0.0152	0.010	mg/Kg wet	0.0200		76.1	40-160	4.62	20	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	0.531	20	
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	5.77	20	
1,1-Dichloroethylene	0.0178	0.0040	mg/Kg wet	0.0200		88.9	70-130	11.9	20	
cis-1,2-Dichloroethylene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	2.79	20	
trans-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	2.77	20	
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	6.53	20	
1,3-Dichloropropane	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130	3.03	20	
2,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	2.84	20	
1,1-Dichloropropene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	1.52	20	
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	4.26	20	
trans-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	3.44	20	
Diethyl Ether	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130	12.2	20	
Diisopropyl Ether (DIPE)	0.0189	0.0010	mg/Kg wet	0.0200		94.4	70-130	2.03	20	
1,4-Dioxane	0.313	0.10	mg/Kg wet	0.200		156	40-160	22.8 *	20	V-36, L-14, R-05, V-16 †
1,4-Dioxane (SIM)	0.206	0.040	mg/Kg wet	0.200		103	40-160	0.406	20	† ‡
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	3.50	20	
Hexachlorobutadiene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.993	20	
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	40-160	3.06	20	†
Isopropylbenzene (Cumene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.08	20	
p-Isopropyltoluene (p-Cymene)	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130	0.318	20	
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130	2.09	20	
Methylene Chloride	0.0194	0.010	mg/Kg wet	0.0200		96.9	70-130	3.25	20	
4-Methyl-2-pentanone (MIBK)	0.207	0.020	mg/Kg wet	0.200		103	40-160	2.17	20	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217293 - SW-846 5035										
LCS Dup (B217293-BSD1)										
Prepared & Analyzed: 11/15/18										
Naphthalene	0.0195	0.0040	mg/Kg wet	0.0200		97.3	70-130	1.14	20	
n-Propylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	1.24	20	
Styrene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	0.948	20	
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	8.49	20	
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130	1.81	20	
Tetrachloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	3.13	20	
Tetrahydrofuran	0.0195	0.010	mg/Kg wet	0.0200		97.4	70-130	3.63	20	V-16
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	0.213	20	
1,2,3-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	3.40	20	
1,2,4-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	4.94	20	
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130	0.115	20	
1,1,2-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	1.87	20	
Trichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130	0.539	20	
Trichlorofluoromethane (Freon 11)	0.0155	0.010	mg/Kg wet	0.0200		77.3	70-130	2.30	20	
1,2,3-Trichloropropane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	4.85	20	
1,2,4-Trimethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	3.20	20	
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	0.933	20	
Vinyl Chloride	0.0155	0.010	mg/Kg wet	0.0200		77.3	70-130	3.81	20	
m+p Xylene	0.0380	0.0040	mg/Kg wet	0.0400		95.1	70-130	1.91	20	
o-Xylene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	1.90	20	
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.1	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217204 - SW-846 3546

Blank (B217204-BLK1)

Prepared: 11/14/18 Analyzed: 11/15/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-05, V-34
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-05
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-05, V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217204 - SW-846 3546										
Blank (B217204-BLK1)										
Prepared: 11/14/18 Analyzed: 11/15/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							V-05
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.21		mg/Kg wet	6.67		63.1	30-130			
Surrogate: Phenol-d6	4.95		mg/Kg wet	6.67		74.2	30-130			
Surrogate: Nitrobenzene-d5	2.31		mg/Kg wet	3.33		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.22		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2,4,6-Tribromophenol	6.27		mg/Kg wet	6.67		94.0	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/Kg wet	3.33		85.5	30-130			
LCS (B217204-BS1)										
Prepared: 11/14/18 Analyzed: 11/15/18										
Acenaphthene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		78.9	40-140			
Acetophenone	1.22	0.34	mg/Kg wet	1.67		73.4	40-140			
Aniline	0.727	0.34	mg/Kg wet	1.67		43.6	40-140			V-05, V-34
Anthracene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140			
Benzo(a)anthracene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140			
Benzo(b)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Benzo(g,h,i)perylene	1.34	0.17	mg/Kg wet	1.67		80.6	40-140			V-05
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Bis(2-chloroethoxy)methane	1.36	0.34	mg/Kg wet	1.67		81.9	40-140			
Bis(2-chloroethyl)ether	1.29	0.34	mg/Kg wet	1.67		77.3	40-140			
Bis(2-chloroisopropyl)ether	1.60	0.34	mg/Kg wet	1.67		95.8	40-140			
Bis(2-Ethylhexyl)phthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140			
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.3	40-140			
Butylbenzylphthalate	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
4-Chloroaniline	0.597	0.66	mg/Kg wet	1.67		35.8	15-140			V-34, V-05 †
2-Chloronaphthalene	1.19	0.34	mg/Kg wet	1.67		71.6	40-140			
2-Chlorophenol	1.16	0.34	mg/Kg wet	1.67		69.9	30-130			
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140			
Dibenzofuran	1.37	0.34	mg/Kg wet	1.67		82.3	40-140			
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
1,2-Dichlorobenzene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140			
1,3-Dichlorobenzene	0.929	0.34	mg/Kg wet	1.67		55.7	40-140			
1,4-Dichlorobenzene	0.936	0.34	mg/Kg wet	1.67		56.1	40-140			
3,3-Dichlorobenzidine	0.876	0.17	mg/Kg wet	1.67		52.5	40-140			
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		84.1	40-140			
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		64.5	30-130			
Dimethylphthalate	1.43	0.34	mg/Kg wet	1.67		86.1	40-140			
2,4-Dinitrophenol	0.903	0.66	mg/Kg wet	1.67		54.2	15-140			V-19 †
2,4-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140			
2,6-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		93.0	40-140			
Di-n-octylphthalate	1.35	0.34	mg/Kg wet	1.67		81.3	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.5	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217204 - SW-846 3546

LCS (B217204-BS1)

Prepared: 11/14/18 Analyzed: 11/15/18

Hexachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.2	40-140			
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.2	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
Isophorone	1.32	0.34	mg/Kg wet	1.67		79.5	40-140			
2-Methylnaphthalene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130			
3/4-Methylphenol	1.30	0.34	mg/Kg wet	1.67		77.8	30-130			
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		75.9	40-140			
2-Nitrophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130			
4-Nitrophenol	1.67	0.66	mg/Kg wet	1.67		100	15-140			†
Pentachlorophenol	0.800	0.34	mg/Kg wet	1.67		48.0	30-130			
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140			
Phenol	1.26	0.34	mg/Kg wet	1.67		75.9	15-140			†
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Pyridine	0.550	0.34	mg/Kg wet	1.67		33.0	30-140			V-05 †
1,2,4-Trichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
2,4,5-Trichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.7	30-130			
2,4,6-Trichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.5	30-130			
Surrogate: 2-Fluorophenol	4.93		mg/Kg wet	6.67		73.9	30-130			
Surrogate: Phenol-d6	5.59		mg/Kg wet	6.67		83.8	30-130			
Surrogate: Nitrobenzene-d5	2.79		mg/Kg wet	3.33		83.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.52		mg/Kg wet	3.33		75.5	30-130			
Surrogate: 2,4,6-Tribromophenol	7.15		mg/Kg wet	6.67		107	30-130			
Surrogate: p-Terphenyl-d14	2.87		mg/Kg wet	3.33		86.2	30-130			

LCS Dup (B217204-BS1)

Prepared: 11/14/18 Analyzed: 11/15/18

Acenaphthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	0.653	30	
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	0.203	30	
Acetophenone	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	1.18	30	
Aniline	0.686	0.34	mg/Kg wet	1.67		41.1	40-140	5.85	30	V-05, V-34
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	0.864	30	
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140	1.44	30	
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	1.54	30	
Benzo(b)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	6.24	30	
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	11.7	30	V-05
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	3.38	30	
Bis(2-chloroethoxy)methane	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	0.293	30	
Bis(2-chloroethyl)ether	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	2.28	30	
Bis(2-chloroisopropyl)ether	1.51	0.34	mg/Kg wet	1.67		90.6	40-140	5.62	30	
Bis(2-Ethylhexyl)phthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140	1.36	30	
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	1.24	30	
Butylbenzylphthalate	1.36	0.34	mg/Kg wet	1.67		81.5	40-140	2.56	30	
4-Chloroaniline	0.608	0.66	mg/Kg wet	1.67		36.5	15-140	1.94	30	V-05, V-34 †
2-Chloronaphthalene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	0.585	30	
2-Chlorophenol	1.13	0.34	mg/Kg wet	1.67		67.6	30-130	3.32	30	
Chrysene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	1.81	30	
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140	8.81	30	
Dibenzofuran	1.37	0.34	mg/Kg wet	1.67		81.9	40-140	0.438	30	
Di-n-butylphthalate	1.27	0.34	mg/Kg wet	1.67		75.9	40-140	1.05	30	
1,2-Dichlorobenzene	0.945	0.34	mg/Kg wet	1.67		56.7	40-140	2.82	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217204 - SW-846 3546										
LCS Dup (B217204-BSD1)										
					Prepared: 11/14/18 Analyzed: 11/15/18					
1,3-Dichlorobenzene	0.903	0.34	mg/Kg wet	1.67		54.2	40-140	2.80	30	
1,4-Dichlorobenzene	0.934	0.34	mg/Kg wet	1.67		56.0	40-140	0.214	30	
3,3-Dichlorobenzidine	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	0.803	30	
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	0.216	30	
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	0.119	30	
2,4-Dimethylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130	2.51	30	
Dimethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.6	40-140	0.536	30	
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.1	15-140	16.8	30	V-19 †
2,4-Dinitrotoluene	1.47	0.34	mg/Kg wet	1.67		88.1	40-140	1.95	30	
2,6-Dinitrotoluene	1.55	0.34	mg/Kg wet	1.67		93.2	40-140	0.236	30	
Di-n-octylphthalate	1.39	0.34	mg/Kg wet	1.67		83.3	40-140	2.50	30	
1,2-Diphenylhydrazine/Azobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	1.08	30	
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	3.17	30	
Fluorene	1.33	0.17	mg/Kg wet	1.67		79.9	40-140	0.602	30	
Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140	1.13	30	
Hexachlorobutadiene	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	5.96	30	
Hexachloroethane	0.977	0.34	mg/Kg wet	1.67		58.6	40-140	5.86	30	
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140	6.96	30	
Isophorone	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	0.555	30	
2-Methylnaphthalene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	0.323	30	
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		70.8	30-130	1.87	30	
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.7	30-130	0.206	30	
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140	1.29	30	
Nitrobenzene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	1.17	30	
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.3	30-130	1.46	30	
4-Nitrophenol	1.70	0.66	mg/Kg wet	1.67		102	15-140	1.96	30	†
Pentachlorophenol	0.850	0.34	mg/Kg wet	1.67		51.0	30-130	6.02	30	
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	1.35	30	
Phenol	1.23	0.34	mg/Kg wet	1.67		74.0	15-140	2.51	30	†
Pyrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	0.786	30	
Pyridine	0.530	0.34	mg/Kg wet	1.67		31.8	30-140	3.76	30	V-05 †
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.8	40-140	6.23	30	
2,4,5-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130	1.82	30	
2,4,6-Trichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.5	30-130	1.20	30	
Surrogate: 2-Fluorophenol	4.66		mg/Kg wet	6.67		69.9	30-130			
Surrogate: Phenol-d6	5.45		mg/Kg wet	6.67		81.8	30-130			
Surrogate: Nitrobenzene-d5	2.67		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2,4,6-Tribromophenol	7.01		mg/Kg wet	6.67		105	30-130			
Surrogate: p-Terphenyl-d14	2.83		mg/Kg wet	3.33		85.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217211 - SW-846 3546

Blank (B217211-BLK1)

Prepared: 11/14/18 Analyzed: 11/15/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217211 - SW-846 3546										
LCS (B217211-BS1)										
					Prepared: 11/14/18 Analyzed: 11/15/18					
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		82.2	40-140			
alpha-Chlordane [2C]	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140			
gamma-Chlordane	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140			
gamma-Chlordane [2C]	0.078	0.0050	mg/Kg wet	0.100		78.5	40-140			
Alachlor	0.085	0.020	mg/Kg wet	0.100		85.4	40-140			
Alachlor [2C]	0.083	0.020	mg/Kg wet	0.100		83.2	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		83.0	40-140			
Aldrin [2C]	0.077	0.0050	mg/Kg wet	0.100		77.0	40-140			
alpha-BHC	0.069	0.0050	mg/Kg wet	0.100		69.5	40-140			
alpha-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		67.3	40-140			
beta-BHC	0.073	0.0050	mg/Kg wet	0.100		73.3	40-140			
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		71.1	40-140			
delta-BHC	0.077	0.0050	mg/Kg wet	0.100		77.0	40-140			
delta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		73.9	40-140			
gamma-BHC (Lindane)	0.074	0.0020	mg/Kg wet	0.100		74.5	40-140			
gamma-BHC (Lindane) [2C]	0.070	0.0020	mg/Kg wet	0.100		69.8	40-140			
4,4'-DDD	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140			
4,4'-DDD [2C]	0.080	0.0040	mg/Kg wet	0.100		80.4	40-140			
4,4'-DDE	0.088	0.0040	mg/Kg wet	0.100		88.4	40-140			
4,4'-DDE [2C]	0.080	0.0040	mg/Kg wet	0.100		80.2	40-140			
4,4'-DDT	0.082	0.0040	mg/Kg wet	0.100		81.5	40-140			
4,4'-DDT [2C]	0.075	0.0040	mg/Kg wet	0.100		75.0	40-140			
Dieldrin	0.080	0.0040	mg/Kg wet	0.100		79.9	40-140			
Dieldrin [2C]	0.074	0.0040	mg/Kg wet	0.100		73.5	40-140			
Endosulfan I	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140			
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140			
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		81.7	40-140			
Endosulfan II [2C]	0.079	0.0080	mg/Kg wet	0.100		78.7	40-140			
Endosulfan Sulfate	0.088	0.0080	mg/Kg wet	0.100		87.6	40-140			
Endosulfan Sulfate [2C]	0.080	0.0080	mg/Kg wet	0.100		80.4	40-140			
Endrin	0.085	0.0080	mg/Kg wet	0.100		85.1	40-140			
Endrin [2C]	0.077	0.0080	mg/Kg wet	0.100		77.1	40-140			
Endrin Aldehyde	0.080	0.0080	mg/Kg wet	0.100		80.0	40-140			
Endrin Aldehyde [2C]	0.076	0.0080	mg/Kg wet	0.100		75.8	40-140			
Endrin Ketone	0.083	0.0080	mg/Kg wet	0.100		82.6	40-140			
Endrin Ketone [2C]	0.079	0.0080	mg/Kg wet	0.100		78.8	40-140			
Heptachlor	0.077	0.0050	mg/Kg wet	0.100		77.2	40-140			
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		73.8	40-140			
Heptachlor Epoxide	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140			
Heptachlor Epoxide [2C]	0.076	0.0050	mg/Kg wet	0.100		75.5	40-140			
Hexachlorobenzene	0.084	0.0060	mg/Kg wet	0.100		84.1	40-140			
Hexachlorobenzene [2C]	0.081	0.0060	mg/Kg wet	0.100		80.9	40-140			
Methoxychlor	0.080	0.050	mg/Kg wet	0.100		79.5	40-140			
Methoxychlor [2C]	0.088	0.050	mg/Kg wet	0.100		88.5	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.152		mg/Kg wet	0.200		76.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217211 - SW-846 3546										
LCS Dup (B217211-BSD1)										
					Prepared: 11/14/18 Analyzed: 11/15/18					
alpha-Chlordane	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140	6.76	30	
alpha-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.7	40-140	6.60	30	
gamma-Chlordane	0.088	0.0050	mg/Kg wet	0.100		87.7	40-140	6.95	30	
gamma-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		84.0	40-140	6.83	30	
Alachlor	0.090	0.020	mg/Kg wet	0.100		90.1	40-140	5.38	30	
Alachlor [2C]	0.089	0.020	mg/Kg wet	0.100		89.2	40-140	6.94	30	
Aldrin	0.089	0.0050	mg/Kg wet	0.100		89.4	40-140	7.40	30	
Aldrin [2C]	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140	7.04	30	
alpha-BHC	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	7.73	30	
alpha-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140	7.37	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		78.6	40-140	7.07	30	
beta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		75.8	40-140	6.38	30	
delta-BHC	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140	6.69	30	
delta-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	6.23	30	
gamma-BHC (Lindane)	0.080	0.0020	mg/Kg wet	0.100		80.3	40-140	7.55	30	
gamma-BHC (Lindane) [2C]	0.075	0.0020	mg/Kg wet	0.100		75.0	40-140	7.30	30	
4,4'-DDD	0.091	0.0040	mg/Kg wet	0.100		90.9	40-140	6.72	30	
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		85.8	40-140	6.52	30	
4,4'-DDE	0.095	0.0040	mg/Kg wet	0.100		94.6	40-140	6.72	30	
4,4'-DDE [2C]	0.086	0.0040	mg/Kg wet	0.100		85.5	40-140	6.39	30	
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		88.2	40-140	7.86	30	
4,4'-DDT [2C]	0.081	0.0040	mg/Kg wet	0.100		81.2	40-140	7.86	30	
Dieldrin	0.085	0.0040	mg/Kg wet	0.100		85.3	40-140	6.58	30	
Dieldrin [2C]	0.078	0.0040	mg/Kg wet	0.100		78.4	40-140	6.43	30	
Endosulfan I	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140	6.61	30	
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.4	40-140	6.96	30	
Endosulfan II	0.087	0.0080	mg/Kg wet	0.100		86.8	40-140	6.08	30	
Endosulfan II [2C]	0.083	0.0080	mg/Kg wet	0.100		83.0	40-140	5.32	30	
Endosulfan Sulfate	0.093	0.0080	mg/Kg wet	0.100		92.9	40-140	5.85	30	
Endosulfan Sulfate [2C]	0.085	0.0080	mg/Kg wet	0.100		85.2	40-140	5.76	30	
Endrin	0.091	0.0080	mg/Kg wet	0.100		90.5	40-140	6.22	30	
Endrin [2C]	0.082	0.0080	mg/Kg wet	0.100		82.1	40-140	6.27	30	
Endrin Aldehyde	0.085	0.0080	mg/Kg wet	0.100		85.0	40-140	6.06	30	
Endrin Aldehyde [2C]	0.080	0.0080	mg/Kg wet	0.100		80.2	40-140	5.68	30	
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.0	40-140	7.48	30	
Endrin Ketone [2C]	0.085	0.0080	mg/Kg wet	0.100		85.1	40-140	7.64	30	
Heptachlor	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	7.65	30	
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140	7.46	30	
Heptachlor Epoxide	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140	6.71	30	
Heptachlor Epoxide [2C]	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140	6.73	30	
Hexachlorobenzene	0.091	0.0060	mg/Kg wet	0.100		90.7	40-140	7.53	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		87.0	40-140	7.21	30	
Methoxychlor	0.087	0.050	mg/Kg wet	0.100		86.7	40-140	8.60	30	
Methoxychlor [2C]	0.096	0.050	mg/Kg wet	0.100		95.5	40-140	7.63	30	
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217320 - SW-846 3546										
Blank (B217320-BLK1)										
Prepared: 11/15/18 Analyzed: 11/16/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.182		mg/Kg wet	0.200		91.1	30-150			
LCS (B217320-BS1)										
Prepared: 11/15/18 Analyzed: 11/16/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		86.0	30-150			
LCS Dup (B217320-BSD1)										
Prepared: 11/15/18 Analyzed: 11/16/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.9	40-140	3.16	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.6	40-140	1.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	2.73	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.6	40-140	4.02	30	
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217320 - SW-846 3546

Matrix Spike (B217320-MS1)

Source: 18K0569-01

Prepared: 11/15/18 Analyzed: 11/16/18

Aroclor-1016	0.20	0.095	mg/Kg dry	0.238	ND	83.3	40-140			
Aroclor-1016 [2C]	0.21	0.095	mg/Kg dry	0.238	ND	86.2	40-140			
Aroclor-1260	0.19	0.095	mg/Kg dry	0.238	ND	79.5	40-140			
Aroclor-1260 [2C]	0.21	0.095	mg/Kg dry	0.238	ND	87.3	40-140			
Surrogate: Decachlorobiphenyl	0.201		mg/Kg dry	0.238		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.213		mg/Kg dry	0.238		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.238		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.209		mg/Kg dry	0.238		87.4	30-150			

Matrix Spike Dup (B217320-MSD1)

Source: 18K0569-01

Prepared: 11/15/18 Analyzed: 11/16/18

Aroclor-1016	0.24	0.098	mg/Kg dry	0.246	ND	97.8	40-140	16.0	30	
Aroclor-1016 [2C]	0.25	0.098	mg/Kg dry	0.246	ND	101	40-140	15.9	30	
Aroclor-1260	0.23	0.098	mg/Kg dry	0.246	ND	93.7	40-140	16.4	30	
Aroclor-1260 [2C]	0.25	0.098	mg/Kg dry	0.246	ND	101	40-140	14.5	30	
Surrogate: Decachlorobiphenyl	0.239		mg/Kg dry	0.246		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.251		mg/Kg dry	0.246		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.241		mg/Kg dry	0.246		97.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.245		mg/Kg dry	0.246		100	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217251 - SW-846 8151										
Blank (B217251-BLK1)										
Prepared: 11/15/18 Analyzed: 11/17/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	84.0		µg/kg wet	95.2		88.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	85.3		µg/kg wet	95.2		89.5	30-150			
LCS (B217251-BS1)										
Prepared: 11/15/18 Analyzed: 11/17/18										
2,4-D	113	25	µg/kg wet	125		90.7	40-140			
2,4-D [2C]	125	25	µg/kg wet	125		100	40-140			
2,4-DB	114	25	µg/kg wet	125		91.3	40-140			V-05
2,4-DB [2C]	119	25	µg/kg wet	125		95.2	40-140			
2,4,5-TP (Silvex)	11.9	2.5	µg/kg wet	12.5		95.6	40-140			
2,4,5-TP (Silvex) [2C]	12.5	2.5	µg/kg wet	12.5		100	40-140			
2,4,5-T	11.4	2.5	µg/kg wet	12.5		91.5	40-140			
2,4,5-T [2C]	12.9	2.5	µg/kg wet	12.5		103	40-140			
Dalapon	196	62	µg/kg wet	312		62.7	40-140			
Dalapon [2C]	198	62	µg/kg wet	312		63.3	40-140			
Dicamba	12.0	2.5	µg/kg wet	12.5		96.2	40-140			
Dicamba [2C]	12.0	2.5	µg/kg wet	12.5		96.4	40-140			
Dichloroprop	123	25	µg/kg wet	125		98.8	40-140			
Dichloroprop [2C]	124	25	µg/kg wet	125		99.1	40-140			
Dinoseb	19.3	12	µg/kg wet	62.5		30.9	0-42.4			
Dinoseb [2C]	22.0	12	µg/kg wet	62.5		35.2	0-41.1			
MCPA	11300	2500	µg/kg wet	12500		90.7	40-140			
MCPA [2C]	10500	2500	µg/kg wet	12500		83.9	40-140			
MCPP	16700	2500	µg/kg wet	12500		134	40-140			
MCPP [2C]	11200	2500	µg/kg wet	12500		89.8	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	90.6		µg/kg wet	100		90.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	89.6		µg/kg wet	100		89.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217251 - SW-846 8151										
LCS Dup (B217251-BSD1)										
					Prepared: 11/15/18 Analyzed: 11/17/18					
2,4-D	115	25	µg/kg wet	125		92.3	40-140	1.79	30	
2,4-D [2C]	120	25	µg/kg wet	125		96.0	40-140	4.15	30	
2,4-DB	116	25	µg/kg wet	125		92.4	40-140	1.20	30	V-05
2,4-DB [2C]	121	25	µg/kg wet	125		97.2	40-140	2.04	30	
2,4,5-TP (Silvex)	12.0	2.5	µg/kg wet	12.5		96.2	40-140	0.599	30	
2,4,5-TP (Silvex) [2C]	12.6	2.5	µg/kg wet	12.5		101	40-140	0.472	30	
2,4,5-T	11.4	2.5	µg/kg wet	12.5		91.5	40-140	0.0350	30	
2,4,5-T [2C]	13.1	2.5	µg/kg wet	12.5		105	40-140	1.63	30	
Dalapon	195	62	µg/kg wet	312		62.4	40-140	0.492	30	
Dalapon [2C]	197	62	µg/kg wet	312		63.2	40-140	0.178	30	
Dicamba	12.0	2.5	µg/kg wet	12.5		95.7	40-140	0.536	30	
Dicamba [2C]	12.1	2.5	µg/kg wet	12.5		96.8	40-140	0.472	30	
Dichloroprop	123	25	µg/kg wet	125		98.5	40-140	0.300	30	
Dichloroprop [2C]	125	25	µg/kg wet	125		99.8	40-140	0.780	30	
Dinoseb	19.5	12	µg/kg wet	62.5		31.2	0-42.4	1.09	30	
Dinoseb [2C]	22.3	12	µg/kg wet	62.5		35.7	0-41.1	1.31	30	
MCPA	11300	2500	µg/kg wet	12500		90.7	40-140	0.0124	30	
MCPA [2C]	10500	2500	µg/kg wet	12500		83.8	40-140	0.0892	30	
MCPP	16800	2500	µg/kg wet	12500		134	40-140	0.290	30	
MCPP [2C]	11200	2500	µg/kg wet	12500		89.5	40-140	0.275	30	
Surrogate: 2,4-Dichlorophenylacetic acid	88.4		µg/kg wet	100		88.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	90.0		µg/kg wet	100		90.0	30-150			
Matrix Spike (B217251-MS1)										
					Source: 18K0569-01 Prepared: 11/15/18 Analyzed: 11/17/18					
2,4-D	135	31	µg/kg dry	155	ND	87.4	30-150			
2,4-D [2C]	149	31	µg/kg dry	155	ND	96.2	30-150			
2,4-DB	138	31	µg/kg dry	155	ND	89.1	30-150			
2,4-DB [2C]	149	31	µg/kg dry	155	ND	96.2	30-150			
2,4,5-TP (Silvex)	14.1	3.1	µg/kg dry	15.5	ND	91.1	30-150			
2,4,5-TP (Silvex) [2C]	14.0	3.1	µg/kg dry	15.5	ND	90.6	30-150			
2,4,5-T	13.1	3.1	µg/kg dry	15.5	ND	84.7	30-150			
2,4,5-T [2C]	14.7	3.1	µg/kg dry	15.5	ND	95.0	30-150			
Dalapon	241	78	µg/kg dry	388	ND	62.1	30-150			
Dalapon [2C]	245	78	µg/kg dry	388	ND	63.1	30-150			
Dicamba	13.5	3.1	µg/kg dry	15.5	ND	87.1	30-150			
Dicamba [2C]	14.1	3.1	µg/kg dry	15.5	ND	91.2	30-150			
Dichloroprop	144	31	µg/kg dry	155	ND	93.1	30-150			
Dichloroprop [2C]	142	31	µg/kg dry	155	ND	91.6	30-150			
Dinoseb	11.6	16	µg/kg dry	77.5	ND	15.0	10-150			V-06, V-20
Dinoseb [2C]	13.7	16	µg/kg dry	77.5	ND	17.6	10-150			V-06, V-20
MCPA	13200	3100	µg/kg dry	15500	ND	84.9	30-150			
MCPA [2C]	12200	3100	µg/kg dry	15500	ND	78.7	30-150			
MCPP	19700	3100	µg/kg dry	15500	ND	127	30-150			
MCPP [2C]	12900	3100	µg/kg dry	15500	ND	83.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	106		µg/kg dry	124		85.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	104		µg/kg dry	124		84.0	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217251 - SW-846 8151										
Matrix Spike Dup (B217251-MSD1)	Source: 18K0569-01			Prepared: 11/15/18 Analyzed: 11/17/18						
2,4-D	135	31	µg/kg dry	155	ND	87.2	30-150	0.177	30	
2,4-D [2C]	146	31	µg/kg dry	155	ND	93.9	30-150	2.36	30	
2,4-DB	138	31	µg/kg dry	155	ND	88.8	30-150	0.358	30	
2,4-DB [2C]	149	31	µg/kg dry	155	ND	96.1	30-150	0.0732	30	
2,4,5-TP (Silvex)	13.9	3.1	µg/kg dry	15.5	ND	89.5	30-150	1.70	30	
2,4,5-TP (Silvex) [2C]	13.4	3.1	µg/kg dry	15.5	ND	86.2	30-150	4.97	30	
2,4,5-T	13.2	3.1	µg/kg dry	15.5	ND	84.9	30-150	0.203	30	
2,4,5-T [2C]	14.6	3.1	µg/kg dry	15.5	ND	94.1	30-150	0.958	30	
Dalapon	225	78	µg/kg dry	388	ND	58.1	30-150	6.76	30	
Dalapon [2C]	227	78	µg/kg dry	388	ND	58.6	30-150	7.42	30	
Dicamba	13.4	3.1	µg/kg dry	15.5	ND	86.3	30-150	0.953	30	
Dicamba [2C]	13.3	3.1	µg/kg dry	15.5	ND	85.6	30-150	6.35	30	
Dichloroprop	143	31	µg/kg dry	155	ND	92.2	30-150	0.970	30	
Dichloroprop [2C]	141	31	µg/kg dry	155	ND	90.9	30-150	0.769	30	
Dinoseb	12.8	16	µg/kg dry	77.5	ND	16.5	10-150	9.51	30	V-06, V-20
Dinoseb [2C]	14.9	16	µg/kg dry	77.5	ND	19.3	10-150	8.90	30	V-06, V-20
MCPA	13100	3100	µg/kg dry	15500	ND	84.3	30-150	0.778	30	
MCPA [2C]	12200	3100	µg/kg dry	15500	ND	78.4	30-150	0.336	30	
MCPP	20200	3100	µg/kg dry	15500	ND	130	30-150	2.78	30	
MCPP [2C]	12700	3100	µg/kg dry	15500	ND	82.1	30-150	1.08	30	
Surrogate: 2,4-Dichlorophenylacetic acid	108		µg/kg dry	124		86.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	107		µg/kg dry	124		85.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217216 - SW-846 3546										
Blank (B217216-BLK1)					Prepared: 11/14/18 Analyzed: 11/15/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.99		mg/Kg wet	3.33		59.8	40-140			
LCS (B217216-BS1)					Prepared: 11/14/18 Analyzed: 11/15/18					
TPH (C9-C36)	28.0	8.3	mg/Kg wet	33.3		84.0	40-140			
Surrogate: 2-Fluorobiphenyl	2.23		mg/Kg wet	3.33		67.0	40-140			
LCS Dup (B217216-BSD1)					Prepared: 11/14/18 Analyzed: 11/15/18					
TPH (C9-C36)	27.8	8.3	mg/Kg wet	33.3		83.4	40-140	0.809	30	
Surrogate: 2-Fluorobiphenyl	2.15		mg/Kg wet	3.33		64.4	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217443 - SW-846 3050B

Blank (B217443-BLK1)

Prepared: 11/16/18 Analyzed: 11/19/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B217443-BS1)

Prepared: 11/16/18 Analyzed: 11/19/18

Antimony	61.6	4.9	mg/Kg wet	75.5		81.6	3.8-196			
Arsenic	154	4.9	mg/Kg wet	161		95.8	83.2-116.8			
Barium	262	4.9	mg/Kg wet	260		101	82.7-117.3			
Beryllium	96.0	0.49	mg/Kg wet	97.6		98.4	83.4-116.8			
Cadmium	204	0.49	mg/Kg wet	211		96.8	83.4-116.6			
Chromium	134	0.98	mg/Kg wet	136		98.4	82.4-117.6			
Lead	108	1.5	mg/Kg wet	111		96.9	83-117.1			
Nickel	94.1	0.98	mg/Kg wet	91.9		102	82.9-117.5			
Selenium	177	9.8	mg/Kg wet	191		92.4	79.6-120.9			
Silver	42.6	0.98	mg/Kg wet	43.3		98.3	79.9-119.9			
Thallium	158	4.9	mg/Kg wet	156		101	81.4-119.2			
Vanadium	51.7	2.0	mg/Kg wet	56.7		91.1	79-121.2			
Zinc	198	2.0	mg/Kg wet	199		99.6	81.4-119.1			

LCS Dup (B217443-BSD1)

Prepared: 11/16/18 Analyzed: 11/19/18

Antimony	60.3	4.9	mg/Kg wet	75.5		79.9	3.8-196	2.01	30	
Arsenic	153	4.9	mg/Kg wet	161		95.0	83.2-116.8	0.861	30	
Barium	257	4.9	mg/Kg wet	260		98.7	82.7-117.3	2.20	30	
Beryllium	96.2	0.49	mg/Kg wet	97.6		98.6	83.4-116.8	0.216	30	
Cadmium	200	0.49	mg/Kg wet	211		94.8	83.4-116.6	2.07	30	
Chromium	134	0.98	mg/Kg wet	136		98.5	82.4-117.6	0.136	30	
Lead	108	1.5	mg/Kg wet	111		97.2	83-117.1	0.376	30	
Nickel	93.5	0.98	mg/Kg wet	91.9		102	82.9-117.5	0.558	30	
Selenium	177	9.8	mg/Kg wet	191		92.4	79.6-120.9	0.00113	30	
Silver	42.3	0.98	mg/Kg wet	43.3		97.6	79.9-119.9	0.721	30	
Thallium	157	4.9	mg/Kg wet	156		101	81.4-119.2	0.757	30	
Vanadium	51.2	2.0	mg/Kg wet	56.7		90.3	79-121.2	0.875	30	
Zinc	195	2.0	mg/Kg wet	199		98.1	81.4-119.1	1.52	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217443 - SW-846 3050B										
MRL Check (B217443-MRL1)					Prepared: 11/16/18 Analyzed: 11/19/18					
Lead	0.558	0.50	mg/Kg wet	0.499		112	80-120			
Batch B217633 - SW-846 7471										
Blank (B217633-BLK1)					Prepared: 11/20/18 Analyzed: 11/21/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B217633-BS1)					Prepared: 11/20/18 Analyzed: 11/21/18					
Mercury	12.3	2.0	mg/Kg wet	11.5		107	71.6-127.8			
LCS Dup (B217633-BSD1)					Prepared: 11/20/18 Analyzed: 11/21/18					
Mercury	13.5	1.9	mg/Kg wet	11.5		117	71.6-127.8	9.31	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217174 - SW-846 9014										
Blank (B217174-BLK1)				Prepared: 11/14/18 Analyzed: 11/15/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B217174-BS1)				Prepared: 11/14/18 Analyzed: 11/15/18						
Reactive Cyanide	9.3	0.40	mg/Kg	10.0		92.9	83.6-111			
Batch B217265 - SW-846 9030A										
Blank (B217265-BLK1)				Prepared & Analyzed: 11/15/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B217265-BS1)				Prepared & Analyzed: 11/15/18						
Reactive Sulfide	13	2.0	mg/Kg	14.8		86.5	54.9-121			
Batch B217354 - SW-846 9045C										
LCS (B217354-BS1)				Prepared & Analyzed: 11/15/18						
pH	6.03		pH Units	6.00		101	90-110			
LCS (B217354-BS2)				Prepared & Analyzed: 11/15/18						
pH	6.02		pH Units	6.00		100	90-110			
Duplicate (B217354-DUP1)		Source: 18K0569-03			Prepared & Analyzed: 11/15/18					
pH	6.3		pH Units		6.3			0.0799	5	H-03
Batch B217587 - % Solids										
Duplicate (B217587-DUP2)		Source: 18K0569-01			Prepared: 11/19/18 Analyzed: 11/20/18					
% Solids	81.0		% Wt		80.6			0.469	20	
Batch B217751 - SM21-22 2510B Modified										
Blank (B217751-BLK1)				Prepared & Analyzed: 11/21/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B217751-BS1)				Prepared & Analyzed: 11/21/18						
Specific conductance	200		µmhos/cm	192		106	90-110			
Duplicate (B217751-DUP1)		Source: 18K0569-01			Prepared & Analyzed: 11/21/18					
Specific conductance	2.5	2.0	µmhos/cm		2.7			6.11	21	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Soil	
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

Doc # 381 Rev 1_03242017
 http://www.contestlabs.com
 39 Spruce Street
 East Longmeadow, MA 01028
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 18K0569

Company Name: VHB
 Address: 101 Walnut Street, Watertown, MA
 Phone: 617-607-1841
 Project Name: Ever-source Transmission Project
 Project Location: Sudbury, Massachusetts
 Project Number: 12970.03
 Project Manager: Paige Cornell
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: PEC

Requested Turnaround Time: 7-Day 10-Day 15-Day
 Due Date: _____
 Rush Approval Required: Yes No
 Data Delivery: 1-Day 2-Day 3-Day 4-Day
 Format: PDF EXCEL Other: Limit Check
 CLP Like Data Pkg Required: Yes No
 Email To: pcorneil@vhb.com; conckid@vhb.com; vberphilips@vhb.com; fire@vhsb.com
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc. Code
1	SB33	11/18	14:30	x	x	S	U
2	SB36	↓	14:35	x	x	S	U
3	SB35	↓	14:50	x	x	S	U
4	SB34	↓	14:40	x	x	S	U

ANALYSIS REQUESTED		Ignitability, pH, Reactivity		Conductivity		Pesticide/Herbicide		SVOCs, PCBs, TPH		VOCs		MCP 14 Metals	
<input type="checkbox"/>	Field Filtered	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	Lab to Filter	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Vials frozen on day of generation by 16:00
 Relinquished by: (Signature) _____
 Date/Time: 11/18/18 11:00
 Received by: (Signature) _____
 Date/Time: 11-13-18 11:00
 Relinquished by: (Signature) _____
 Date/Time: 11-13-18 17:30
 Received by: (Signature) _____
 Date/Time: 11-13 5:50
 Relinquished by: (Signature) _____
 Date/Time: 11-13-18 7:45
 Received by: (Signature) _____
 Date/Time: 11/19/18 19:45

Special Requirements: MA MCP Required
 MCP Certification Form Required:
 CT RCP Required:
 RCP Certification Form Required:
 MA State DW Required:
 PWSID # _____
 Project Entity: Government Municipality MWRA WRTA Other
 Federal Z1 J School Chromatogram
 City Brownfield MBTA AIHA-LAP, LLC

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define) .DI
 H2O

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet



I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By MP Date 11/13/18 Time 19:46

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project F ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luhe

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	4	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	8	Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

Samples received out of hold for pH analysis

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 18K0569
Project Location: Sudbury, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
18K0569-01 thru 18K0569-04

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: <u>Lisa Worthington</u>	Position: <u>Project Manager</u>
Printed Name: <u>Lisa A. Worthington</u>	Date: <u>11/21/18</u>

December 3, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K0931

Enclosed are results of analyses for samples received by the laboratory on November 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, slightly slanted style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 12/3/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0931

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B28	18K0931-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 11/28/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 6010D

Qualifications:

M-10
The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:

Lead
18K0931-01[B28], B217937-MRL1

SW-846 8081B

Qualifications:

MS-22
Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

alpha-BHC [2C]
B217863-MSD1

SW-846 8082A

Qualifications:

O-32
A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18K0931-01[B28]

SW-846 8260C

Qualifications:

L-02
Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Acetone
B217803-BS1, B217803-BSD1, S029731-CCV1

L-07A
Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)
B217803-BS1

R-05
Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

Acetone
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

Tetrahydrofuran
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

V-16
Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

1,4-Dioxane (SIM)
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

Tetrahydrofuran
18K0931-01[B28], B217803-BLK1, B217803-BS1, B217803-BSD1, S029731-CCV1

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V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B217803-BS1, B217803-BSD1, S029731-CCV1

Tetrahydrofuran

B217803-BS1, B217803-BSD1, S029731-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

B217803-BS1, B217803-BSD1, S029731-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B217803-BS1, B217803-BSD1, S029731-CCV1

1,4-Dioxane (SIM)

B217803-BS1, B217803-BSD1, S029731-CCV1

SW-846 8270D

Qualifications:**V-04**

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

18K0931-01[B28], B217777-BLK1, B217777-BS1, B217777-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18K0931-01[B28], B217777-BLK1, B217777-BS1, B217777-BSD1

SW-846 9045C

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18K0931-01[B28], B217703-DUP1

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SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.056	mg/Kg dry	1	R-05	SW-846 8260C	11/26/18	11/26/18 9:09	BRF
tert-Amyl Methyl Ether (TAME)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Bromomethane	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1	R-05	SW-846 8260C	11/26/18	11/26/18 9:09	BRF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Chlorodibromomethane	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Chloroethane	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Chloromethane	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2-Dibromoethane (EDB)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,3-Dichloropropane	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
cis-1,3-Dichloropropene	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
trans-1,3-Dichloropropene	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Diethyl Ether	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Diisopropyl Ether (DIPE)	ND	0.00056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,4-Dioxane	ND	0.056	mg/Kg dry	1	V-16	SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,4-Dioxane (SIM)	ND	0.022	mg/Kg dry	1	V-16	SW-846 8260C	11/26/18	11/26/18 9:09	BRF

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Methylene Chloride	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Naphthalene	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1,2,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Tetrahydrofuran	ND	0.0056	mg/Kg dry	1	R-05, V-16	SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Trichlorofluoromethane (Freon 11)	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Vinyl Chloride	ND	0.0056	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	11/26/18	11/26/18 9:09	BRF
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4		106	70-130				11/26/18	9:09	
Toluene-d8		98.4	70-130				11/26/18	9:09	
4-Bromofluorobenzene		99.8	70-130				11/26/18	9:09	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Aniline	ND	0.39	mg/Kg dry	1	V-04	SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Benzo(b)fluoranthene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
4-Chloroaniline	ND	0.75	mg/Kg dry	1	V-34	SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Chrysene	0.23	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Fluoranthene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Pyrene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	11/24/18	11/27/18 16:15	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		64.3	30-130					11/27/18 16:15	
Phenol-d6		67.2	30-130					11/27/18 16:15	
Nitrobenzene-d5		68.0	30-130					11/27/18 16:15	
2-Fluorobiphenyl		58.7	30-130					11/27/18 16:15	
2,4,6-Tribromophenol		66.1	30-130					11/27/18 16:15	
p-Terphenyl-d14		68.7	30-130					11/27/18 16:15	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
4,4'-DDT [1]	0.0078	0.0043	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Endosulfan II [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Endosulfan sulfate [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Endrin [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Endrin aldehyde [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 22:16	TG
Endrin ketone [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Hexachlorobenzene [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	11/26/18	11/28/18 20:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.8	30-150					11/28/18 22:16	
Decachlorobiphenyl [2]		79.0	30-150					11/28/18 22:16	
Tetrachloro-m-xylene [1]		45.1	30-150					11/28/18 22:16	
Tetrachloro-m-xylene [2]		40.4	30-150					11/28/18 22:16	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Field Sample #: B28

Sampled: 11/13/2018 14:00

Sample ID: 18K0931-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	11/26/18	11/27/18 16:11	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.2	30-150					11/27/18 16:11	
Decachlorobiphenyl [2]		82.2	30-150					11/27/18 16:11	
Tetrachloro-m-xylene [1]		74.1	30-150					11/27/18 16:11	
Tetrachloro-m-xylene [2]		75.4	30-150					11/27/18 16:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Sampled: 11/13/2018 14:00

Field Sample #: B28

Sample ID: 18K0931-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
2,4-DB [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
Dalapon [1]	ND	71	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
MCPP [1]	ND	2900	µg/kg dry	1		SW-846 8151A	11/26/18	11/30/18 5:35	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		81.2	30-150					11/30/18 5:35	
2,4-Dichlorophenylacetic acid [2]		87.3	30-150					11/30/18 5:35	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Sampled: 11/13/2018 14:00

Field Sample #: B28

Sample ID: 18K0931-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	61	9.5	mg/Kg dry	1		SW-846 8100 Modified	11/24/18	11/27/18 15:30	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		57.1	40-140					11/27/18 15:30	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Sampled: 11/13/2018 14:00

Field Sample #: B28

Sample ID: 18K0931-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Arsenic	14	1.9	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Barium	46	1.9	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Beryllium	0.29	0.19	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Cadmium	0.37	0.19	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Chromium	13	0.38	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Lead	26	0.57	mg/Kg dry	1	M-10	SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	11/27/18	11/28/18 11:14	AJL
Nickel	13	0.38	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Vanadium	16	0.77	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB
Zinc	14	0.77	mg/Kg dry	1		SW-846 6010D	11/27/18	11/28/18 15:03	EJB

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K0931

Date Received: 11/20/2018

Sampled: 11/13/2018 14:00

Field Sample #: B28

Sample ID: 18K0931-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/26/18	11/26/18 14:33	LED
pH @19.8°C	4.8		pH Units	1	H-03	SW-846 9045C	11/20/18	11/20/18 18:51	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	11/29/18	11/30/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/29/18	11/30/18 13:00	DJM
Specific conductance	6.0	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/26/18	11/26/18 15:21	MMH
% Solids	87.7		% Wt	1		SM 2540G	11/26/18	11/27/18 15:35	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K0931-01 [B28]	B217892	11/26/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0931-01 [B28]	B217784	1.00	11/26/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0931-01 [B28]	B217884	50.0	11/26/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217937	1.49	50.0	11/27/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217947	0.621	50.0	11/27/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217863	10.7	10.0	11/26/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217862	10.7	10.0	11/26/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217782	30.1	1.00	11/24/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217799	20.0	5.00	11/26/18

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217803	10.2	10.0	11/26/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B217777	30.1	1.00	11/24/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B218163	25.3	250	11/29/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K0931-01 [B28]	B218234	25.3	250	11/29/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18K0931-01 [B28]	B217703	20.0	11/20/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217803 - SW-846 5035

Blank (B217803-BLK1)

Prepared & Analyzed: 11/26/18

Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
1,4-Dioxane (SIM)	ND	0.040	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217803 - SW-846 5035

Blank (B217803-BLK1)

Prepared & Analyzed: 11/26/18

Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							R-05, V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0547		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0486		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0494		mg/Kg wet	0.0500		98.7	70-130			

LCS (B217803-BS1)

Prepared & Analyzed: 11/26/18

Acetone	0.568	0.10	mg/Kg wet	0.200		284 *	40-160			L-02, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130			
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
Bromobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Bromochloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
Bromoform	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromomethane	0.0126	0.010	mg/Kg wet	0.0200		62.9	40-160			L-14, V-20, V-34 †
2-Butanone (MEK)	0.389	0.040	mg/Kg wet	0.200		194 *	40-160			L-07A, R-05 †
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
tert-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
Carbon Disulfide	0.0192	0.0060	mg/Kg wet	0.0200		95.9	70-130			
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Chlorodibromomethane	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130			
Chloroethane	0.0180	0.010	mg/Kg wet	0.0200		89.8	70-130			
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		98.2	70-130			
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		81.8	40-160			†
2-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
4-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,3-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217803 - SW-846 5035										
LCS (B217803-BS1)										
Prepared & Analyzed: 11/26/18										
1,4-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0128	0.010	mg/Kg wet	0.0200		63.9	40-160			L-14 †
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1-Dichloroethylene	0.0187	0.0040	mg/Kg wet	0.0200		93.6	70-130			
cis-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
trans-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
1,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130			
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
trans-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Diethyl Ether	0.0196	0.010	mg/Kg wet	0.0200		98.0	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.179	0.10	mg/Kg wet	0.200		89.7	40-160			V-16, V-36 †
1,4-Dioxane (SIM)	0.206	0.040	mg/Kg wet	0.200		103	40-160			V-16, V-36 †
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Hexachlorobutadiene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
2-Hexanone (MBK)	0.314	0.020	mg/Kg wet	0.200		157	40-160			L-14 †
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
p-Isopropyltoluene (p-Cymene)	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0201	0.010	mg/Kg wet	0.0200		100	70-130			
4-Methyl-2-pentanone (MIBK)	0.214	0.020	mg/Kg wet	0.200		107	40-160			†
Naphthalene	0.0185	0.0040	mg/Kg wet	0.0200		92.3	70-130			
n-Propylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Styrene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2,2-Tetrachloroethane	0.0196	0.0010	mg/Kg wet	0.0200		97.8	70-130			
Tetrachloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Tetrahydrofuran	0.0175	0.010	mg/Kg wet	0.0200		87.3	70-130			R-05, V-16, V-20
Toluene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
1,2,3-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,2,4-Trichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,1,2-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
Trichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0167	0.010	mg/Kg wet	0.0200		83.3	70-130			
1,2,3-Trichloropropane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
1,2,4-Trimethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
1,3,5-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Vinyl Chloride	0.0165	0.010	mg/Kg wet	0.0200		82.3	70-130			
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.4	70-130			
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0527		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217803 - SW-846 5035

LCS Dup (B217803-BSD1)

Prepared & Analyzed: 11/26/18

Acetone	0.439	0.10	mg/Kg wet	0.200		219 *	40-160	25.7 *	20	L-02, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	0.388	20	
Benzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	4.20	20	
Bromobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.11	20	
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	2.73	20	
Bromodichloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.00	20	
Bromoform	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	5.73	20	
Bromomethane	0.0139	0.010	mg/Kg wet	0.0200		69.4	40-160	9.83	20	L-14, V-20, V-34 †
2-Butanone (MEK)	0.315	0.040	mg/Kg wet	0.200		158	40-160	20.8 *	20	L-14, R-05 †
n-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	8.64	20	
sec-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	5.76	20	
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	8.62	20	
tert-Butyl Ethyl Ether (TBEE)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	0.588	20	
Carbon Disulfide	0.0198	0.0060	mg/Kg wet	0.0200		98.8	70-130	2.98	20	
Carbon Tetrachloride	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.09	20	
Chlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	6.15	20	
Chlorodibromomethane	0.0223	0.0010	mg/Kg wet	0.0200		111	70-130	0.538	20	
Chloroethane	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130	4.36	20	
Chloroform	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130	6.79	20	
Chloromethane	0.0176	0.010	mg/Kg wet	0.0200		88.2	40-160	7.53	20	†
2-Chlorotoluene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	4.47	20	
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.24	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	5.42	20	
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	0.555	20	
Dibromomethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.48	20	
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.84	20	
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	5.00	20	
1,4-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	2.63	20	
Dichlorodifluoromethane (Freon 12)	0.0148	0.010	mg/Kg wet	0.0200		73.8	40-160	14.4	20	†
1,1-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.92	20	
1,2-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.482	20	
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130	8.78	20	
cis-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	2.05	20	
trans-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	5.91	20	
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.982	20	
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	5.51	20	
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	5.62	20	
1,1-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.17	20	
cis-1,3-Dichloropropene	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130	3.15	20	
trans-1,3-Dichloropropene	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	4.22	20	
Diethyl Ether	0.0200	0.010	mg/Kg wet	0.0200		100	70-130	2.22	20	
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	1.74	20	
1,4-Dioxane	0.191	0.10	mg/Kg wet	0.200		95.7	40-160	6.49	20	V-16, V-36 †
1,4-Dioxane (SIM)	0.192	0.040	mg/Kg wet	0.200		95.9	40-160	7.15	20	V-16, V-36 † ‡
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	1.85	20	
Hexachlorobutadiene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	5.98	20	
2-Hexanone (MBK)	0.261	0.020	mg/Kg wet	0.200		131	40-160	18.4	20	L-14 †
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.49	20	
p-Isopropyltoluene (p-Cymene)	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	6.45	20	
Methyl tert-Butyl Ether (MTBE)	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130	3.60	20	
Methylene Chloride	0.0207	0.010	mg/Kg wet	0.0200		103	70-130	2.84	20	
4-Methyl-2-pentanone (MIBK)	0.212	0.020	mg/Kg wet	0.200		106	40-160	1.17	20	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217803 - SW-846 5035										
LCS Dup (B217803-BSD1)										
Prepared & Analyzed: 11/26/18										
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130	1.83	20	
n-Propylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	5.85	20	
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	3.42	20	
1,1,1,2-Tetrachloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	3.87	20	
1,1,2,2-Tetrachloroethane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	5.86	20	
Tetrachloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	3.90	20	
Tetrahydrofuran	0.0226	0.010	mg/Kg wet	0.0200		113	70-130	25.6	20	* V-16, V-20, R-05
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	2.52	20	
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	5.97	20	
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	7.08	20	
1,1,1-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	2.96	20	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	7.64	20	
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	1.69	20	
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.0200		89.8	70-130	7.51	20	
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	10.1	20	
1,2,4-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	11.7	20	
1,3,5-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	3.10	20	
Vinyl Chloride	0.0171	0.010	mg/Kg wet	0.0200		85.7	70-130	4.05	20	
m+p Xylene	0.0393	0.0040	mg/Kg wet	0.0400		98.3	70-130	0.868	20	
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	4.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.0533		mg/Kg wet	0.0500		107	70-130			
Surrogate: Toluene-d8	0.0489		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217777 - SW-846 3546

Blank (B217777-BLK1)

Prepared: 11/24/18 Analyzed: 11/27/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217777 - SW-846 3546										
Blank (B217777-BLK1)										
Prepared: 11/24/18 Analyzed: 11/27/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.91		mg/Kg wet	6.67		73.6	30-130			
Surrogate: Phenol-d6	5.09		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Nitrobenzene-d5	2.51		mg/Kg wet	3.33		75.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg wet	3.33		61.8	30-130			
Surrogate: 2,4,6-Tribromophenol	5.29		mg/Kg wet	6.67		79.3	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.33		81.6	30-130			
LCS (B217777-BS1)										
Prepared: 11/24/18 Analyzed: 11/27/18										
Acenaphthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140			
Acetophenone	1.02	0.34	mg/Kg wet	1.67		61.4	40-140			
Aniline	0.676	0.34	mg/Kg wet	1.67		40.5	40-140			V-04
Anthracene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Benzo(a)pyrene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140			
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			
Bis(2-chloroethyl)ether	0.988	0.34	mg/Kg wet	1.67		59.3	40-140			
Bis(2-chloroisopropyl)ether	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
Bis(2-Ethylhexyl)phthalate	1.11	0.34	mg/Kg wet	1.67		66.8	40-140			
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		80.8	40-140			
Butylbenzylphthalate	1.13	0.34	mg/Kg wet	1.67		67.7	40-140			
4-Chloroaniline	0.645	0.66	mg/Kg wet	1.67		38.7	15-140			V-34 †
2-Chloronaphthalene	0.985	0.34	mg/Kg wet	1.67		59.1	40-140			
2-Chlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Dibenz(a,h)anthracene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Dibenzofuran	1.17	0.34	mg/Kg wet	1.67		70.3	40-140			
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4	40-140			
1,2-Dichlorobenzene	0.962	0.34	mg/Kg wet	1.67		57.7	40-140			
1,3-Dichlorobenzene	0.905	0.34	mg/Kg wet	1.67		54.3	40-140			
1,4-Dichlorobenzene	0.922	0.34	mg/Kg wet	1.67		55.3	40-140			
3,3-Dichlorobenzidine	0.952	0.17	mg/Kg wet	1.67		57.1	40-140			
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.9	30-130			
Diethylphthalate	1.15	0.34	mg/Kg wet	1.67		68.8	40-140			
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.67		68.7	30-130			
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
2,4-Dinitrophenol	0.907	0.66	mg/Kg wet	1.67		54.4	15-140			†
2,4-Dinitrotoluene	1.18	0.34	mg/Kg wet	1.67		70.7	40-140			
2,6-Dinitrotoluene	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
Di-n-octylphthalate	1.06	0.34	mg/Kg wet	1.67		63.4	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.05	0.34	mg/Kg wet	1.67		62.8	40-140			
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217777 - SW-846 3546

LCS (B217777-BS1)

Prepared: 11/24/18 Analyzed: 11/27/18

Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
Hexachlorobutadiene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
Hexachloroethane	0.894	0.34	mg/Kg wet	1.67		53.6	40-140			
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Isophorone	1.15	0.34	mg/Kg wet	1.67		69.1	40-140			
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.4	30-130			
3/4-Methylphenol	1.05	0.34	mg/Kg wet	1.67		63.0	30-130			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140			
Nitrobenzene	1.00	0.34	mg/Kg wet	1.67		60.2	40-140			
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130			
4-Nitrophenol	1.10	0.66	mg/Kg wet	1.67		65.8	15-140			†
Pentachlorophenol	0.914	0.34	mg/Kg wet	1.67		54.8	30-130			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Phenol	1.08	0.34	mg/Kg wet	1.67		64.6	15-140			†
Pyrene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Pyridine	0.638	0.34	mg/Kg wet	1.67		38.3	30-140			†
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140			
2,4,5-Trichlorophenol	1.18	0.34	mg/Kg wet	1.67		70.7	30-130			
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Surrogate: 2-Fluorophenol	4.41		mg/Kg wet	6.67		66.2	30-130			
Surrogate: Phenol-d6	4.70		mg/Kg wet	6.67		70.5	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/Kg wet	3.33		67.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.12		mg/Kg wet	3.33		63.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.19		mg/Kg wet	6.67		77.9	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.5	30-130			

LCS Dup (B217777-BS1)

Prepared: 11/24/18 Analyzed: 11/27/18

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140	2.03	30	
Acenaphthylene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	4.57	30	
Acetophenone	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	4.18	30	
Aniline	0.781	0.34	mg/Kg wet	1.67		46.8	40-140	14.4	30	V-04
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.86	30	
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	5.12	30	
Benzo(a)pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	6.63	30	
Benzo(b)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	7.35	30	
Benzo(g,h,i)perylene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140	5.20	30	
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	6.15	30	
Bis(2-chloroethoxy)methane	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	4.71	30	
Bis(2-chloroethyl)ether	1.02	0.34	mg/Kg wet	1.67		61.5	40-140	3.71	30	
Bis(2-chloroisopropyl)ether	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	1.55	30	
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	5.31	30	
4-Bromophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.0	40-140	5.02	30	
Butylbenzylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	5.32	30	
4-Chloroaniline	0.643	0.66	mg/Kg wet	1.67		38.6	15-140	0.362	30	V-34 †
2-Chloronaphthalene	1.10	0.34	mg/Kg wet	1.67		66.2	40-140	11.4	30	
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.67		70.6	30-130	5.08	30	
Chrysene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140	5.58	30	
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	5.70	30	
Dibenzofuran	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	4.91	30	
Di-n-butylphthalate	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	6.77	30	
1,2-Dichlorobenzene	0.976	0.34	mg/Kg wet	1.67		58.5	40-140	1.45	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217777 - SW-846 3546										
LCS Dup (B217777-BSD1)										
					Prepared: 11/24/18 Analyzed: 11/27/18					
1,3-Dichlorobenzene	0.919	0.34	mg/Kg wet	1.67		55.2	40-140	1.61	30	
1,4-Dichlorobenzene	0.936	0.34	mg/Kg wet	1.67		56.2	40-140	1.58	30	
3,3-Dichlorobenzidine	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	4.42	30	
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.7	30-130	5.35	30	
Diethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7	40-140	5.54	30	
2,4-Dimethylphenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130	3.54	30	
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.3	40-140	3.84	30	
2,4-Dinitrophenol	0.961	0.66	mg/Kg wet	1.67		57.7	15-140	5.82	30	†
2,4-Dinitrotoluene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	5.55	30	
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		77.9	40-140	3.98	30	
Di-n-octylphthalate	1.13	0.34	mg/Kg wet	1.67		67.7	40-140	6.50	30	
1,2-Diphenylhydrazine/Azobenzene	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	5.48	30	
Fluoranthene	1.35	0.17	mg/Kg wet	1.67		81.3	40-140	5.49	30	
Fluorene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	5.03	30	
Hexachlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140	5.32	30	
Hexachlorobutadiene	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	5.66	30	
Hexachloroethane	0.907	0.34	mg/Kg wet	1.67		54.4	40-140	1.41	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140	7.11	30	
Isophorone	1.22	0.34	mg/Kg wet	1.67		73.4	40-140	6.04	30	
2-Methylnaphthalene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	5.23	30	
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.9	30-130	4.93	30	
3/4-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130	4.53	30	
Naphthalene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	5.77	30	
Nitrobenzene	1.05	0.34	mg/Kg wet	1.67		62.9	40-140	4.29	30	
2-Nitrophenol	1.18	0.34	mg/Kg wet	1.67		70.5	30-130	6.53	30	
4-Nitrophenol	1.17	0.66	mg/Kg wet	1.67		70.1	15-140	6.45	30	†
Pentachlorophenol	0.959	0.34	mg/Kg wet	1.67		57.6	30-130	4.88	30	
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	5.63	30	
Phenol	1.13	0.34	mg/Kg wet	1.67		67.6	15-140	4.54	30	†
Pyrene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.40	30	
Pyridine	0.649	0.34	mg/Kg wet	1.67		39.0	30-140	1.81	30	†
1,2,4-Trichlorobenzene	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	5.21	30	
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130	5.18	30	
2,4,6-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130	4.01	30	
Surrogate: 2-Fluorophenol	4.52		mg/Kg wet	6.67		67.9	30-130			
Surrogate: Phenol-d6	4.82		mg/Kg wet	6.67		72.2	30-130			
Surrogate: Nitrobenzene-d5	2.33		mg/Kg wet	3.33		69.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.15		mg/Kg wet	3.33		64.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.31		mg/Kg wet	6.67		79.7	30-130			
Surrogate: p-Terphenyl-d14	2.66		mg/Kg wet	3.33		79.9	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217863 - SW-846 3546

Blank (B217863-BLK1)

Prepared: 11/26/18 Analyzed: 11/28/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.0773		mg/Kg wet	0.200		38.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0735		mg/Kg wet	0.200		36.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217863 - SW-846 3546										
LCS (B217863-BS1)										
					Prepared: 11/26/18 Analyzed: 11/28/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		88.7	40-140			
alpha-Chlordane [2C]	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.8	40-140			
gamma-Chlordane [2C]	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Alachlor	0.065	0.020	mg/Kg wet	0.100		64.5	40-140			
Alachlor [2C]	0.065	0.020	mg/Kg wet	0.100		64.5	40-140			
Aldrin	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Aldrin [2C]	0.073	0.0050	mg/Kg wet	0.100		73.1	40-140			
alpha-BHC	0.053	0.0050	mg/Kg wet	0.100		53.2	40-140			
alpha-BHC [2C]	0.052	0.0050	mg/Kg wet	0.100		51.8	40-140			
beta-BHC	0.062	0.0050	mg/Kg wet	0.100		62.3	40-140			
beta-BHC [2C]	0.059	0.0050	mg/Kg wet	0.100		59.3	40-140			
delta-BHC	0.066	0.0050	mg/Kg wet	0.100		66.0	40-140			
delta-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		63.7	40-140			
gamma-BHC (Lindane)	0.061	0.0020	mg/Kg wet	0.100		60.8	40-140			
gamma-BHC (Lindane) [2C]	0.057	0.0020	mg/Kg wet	0.100		56.6	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		99.6	40-140			
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		86.3	40-140			
4,4'-DDE	0.098	0.0040	mg/Kg wet	0.100		97.6	40-140			
4,4'-DDE [2C]	0.085	0.0040	mg/Kg wet	0.100		85.2	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140			
Dieldrin	0.093	0.0040	mg/Kg wet	0.100		92.6	40-140			
Dieldrin [2C]	0.079	0.0040	mg/Kg wet	0.100		79.2	40-140			
Endosulfan I	0.088	0.0050	mg/Kg wet	0.100		87.8	40-140			
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		79.9	40-140			
Endosulfan II	0.092	0.0080	mg/Kg wet	0.100		91.8	40-140			
Endosulfan II [2C]	0.084	0.0080	mg/Kg wet	0.100		84.3	40-140			
Endosulfan Sulfate	0.088	0.0080	mg/Kg wet	0.100		87.7	40-140			
Endosulfan Sulfate [2C]	0.081	0.0080	mg/Kg wet	0.100		80.9	40-140			
Endrin	0.093	0.0080	mg/Kg wet	0.100		93.1	40-140			
Endrin [2C]	0.084	0.0080	mg/Kg wet	0.100		84.2	40-140			
Endrin Aldehyde	0.092	0.0080	mg/Kg wet	0.100		91.6	40-140			
Endrin Aldehyde [2C]	0.085	0.0080	mg/Kg wet	0.100		85.3	40-140			
Endrin Ketone	0.093	0.0080	mg/Kg wet	0.100		92.9	40-140			
Endrin Ketone [2C]	0.087	0.0080	mg/Kg wet	0.100		86.6	40-140			
Heptachlor	0.059	0.0050	mg/Kg wet	0.100		59.4	40-140			
Heptachlor [2C]	0.069	0.0050	mg/Kg wet	0.100		68.8	40-140			
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.0	40-140			
Heptachlor Epoxide [2C]	0.076	0.0050	mg/Kg wet	0.100		75.5	40-140			
Hexachlorobenzene	0.058	0.0060	mg/Kg wet	0.100		57.8	40-140			
Hexachlorobenzene [2C]	0.055	0.0060	mg/Kg wet	0.100		54.5	40-140			
Methoxychlor	0.11	0.050	mg/Kg wet	0.100		107	40-140			
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		102	40-140			
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.106		mg/Kg wet	0.200		53.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg wet	0.200		50.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217863 - SW-846 3546										
LCS Dup (B217863-BSD1)										
					Prepared: 11/26/18 Analyzed: 11/28/18					
alpha-Chlordane	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140	1.95	30	
alpha-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.5	40-140	2.69	30	
gamma-Chlordane	0.085	0.0050	mg/Kg wet	0.100		84.9	40-140	1.13	30	
gamma-Chlordane [2C]	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	1.85	30	
Alachlor	0.068	0.020	mg/Kg wet	0.100		68.0	40-140	5.27	30	
Alachlor [2C]	0.067	0.020	mg/Kg wet	0.100		66.8	40-140	3.45	30	
Aldrin	0.083	0.0050	mg/Kg wet	0.100		82.7	40-140	2.23	30	
Aldrin [2C]	0.074	0.0050	mg/Kg wet	0.100		73.9	40-140	1.09	30	
alpha-BHC	0.060	0.0050	mg/Kg wet	0.100		59.5	40-140	11.2	30	
alpha-BHC [2C]	0.057	0.0050	mg/Kg wet	0.100		57.3	40-140	10.1	30	
beta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.8	40-140	9.90	30	
beta-BHC [2C]	0.065	0.0050	mg/Kg wet	0.100		64.6	40-140	8.59	30	
delta-BHC	0.070	0.0050	mg/Kg wet	0.100		70.0	40-140	5.85	30	
delta-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		67.0	40-140	5.08	30	
gamma-BHC (Lindane)	0.067	0.0020	mg/Kg wet	0.100		66.8	40-140	9.34	30	
gamma-BHC (Lindane) [2C]	0.062	0.0020	mg/Kg wet	0.100		61.6	40-140	8.61	30	
4,4'-DDD	0.094	0.0040	mg/Kg wet	0.100		94.2	40-140	5.57	30	
4,4'-DDD [2C]	0.082	0.0040	mg/Kg wet	0.100		81.8	40-140	5.29	30	
4,4'-DDE	0.094	0.0040	mg/Kg wet	0.100		93.5	40-140	4.32	30	
4,4'-DDE [2C]	0.081	0.0040	mg/Kg wet	0.100		81.4	40-140	4.48	30	
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		95.7	40-140	5.61	30	
4,4'-DDT [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140	5.88	30	
Dieldrin	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	3.19	30	
Dieldrin [2C]	0.076	0.0040	mg/Kg wet	0.100		76.5	40-140	3.51	30	
Endosulfan I	0.086	0.0050	mg/Kg wet	0.100		86.0	40-140	2.08	30	
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		77.8	40-140	2.66	30	
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		87.8	40-140	4.41	30	
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		80.6	40-140	4.38	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		82.5	40-140	6.07	30	
Endosulfan Sulfate [2C]	0.078	0.0080	mg/Kg wet	0.100		77.6	40-140	4.21	30	
Endrin	0.090	0.0080	mg/Kg wet	0.100		89.7	40-140	3.73	30	
Endrin [2C]	0.081	0.0080	mg/Kg wet	0.100		80.8	40-140	4.01	30	
Endrin Aldehyde	0.094	0.0080	mg/Kg wet	0.100		93.8	40-140	2.39	30	
Endrin Aldehyde [2C]	0.087	0.0080	mg/Kg wet	0.100		86.6	40-140	1.52	30	
Endrin Ketone	0.088	0.0080	mg/Kg wet	0.100		88.4	40-140	4.97	30	
Endrin Ketone [2C]	0.083	0.0080	mg/Kg wet	0.100		82.9	40-140	4.27	30	
Heptachlor	0.062	0.0050	mg/Kg wet	0.100		62.0	40-140	4.27	30	
Heptachlor [2C]	0.071	0.0050	mg/Kg wet	0.100		70.7	40-140	2.76	30	
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140	0.419	30	
Heptachlor Epoxide [2C]	0.075	0.0050	mg/Kg wet	0.100		75.0	40-140	0.695	30	
Hexachlorobenzene	0.063	0.0060	mg/Kg wet	0.100		63.4	40-140	9.17	30	
Hexachlorobenzene [2C]	0.059	0.0060	mg/Kg wet	0.100		59.1	40-140	8.09	30	
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		101	40-140	5.62	30	
Methoxychlor [2C]	0.096	0.050	mg/Kg wet	0.100		96.3	40-140	6.11	30	
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.145		mg/Kg wet	0.200		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.134		mg/Kg wet	0.200		67.2	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217863 - SW-846 3546										
Matrix Spike (B217863-MS1)	Source: 18K0931-01			Prepared: 11/26/18 Analyzed: 11/29/18						
Alachlor	0.057	0.023	mg/Kg dry	0.114	ND	49.9	30-150			
Alachlor [2C]	0.054	0.023	mg/Kg dry	0.114	ND	47.5	30-150			
Aldrin	0.082	0.0057	mg/Kg dry	0.114	ND	71.7	30-150			
Aldrin [2C]	0.073	0.0057	mg/Kg dry	0.114	ND	63.8	30-150			
alpha-BHC	0.043	0.0057	mg/Kg dry	0.114	ND	37.9	30-150			
alpha-BHC [2C]	0.042	0.0057	mg/Kg dry	0.114	ND	36.5	30-150			
beta-BHC	0.062	0.0057	mg/Kg dry	0.114	ND	54.1	30-150			
beta-BHC [2C]	0.058	0.0057	mg/Kg dry	0.114	ND	50.7	30-150			
delta-BHC	0.066	0.0057	mg/Kg dry	0.114	ND	58.3	30-150			
delta-BHC [2C]	0.063	0.0057	mg/Kg dry	0.114	ND	54.9	30-150			
gamma-BHC (Lindane)	0.054	0.0023	mg/Kg dry	0.114	ND	47.2	30-150			
gamma-BHC (Lindane) [2C]	0.050	0.0023	mg/Kg dry	0.114	ND	43.4	30-150			
4,4'-DDD	0.10	0.0046	mg/Kg dry	0.114	ND	90.0	30-150			
4,4'-DDD [2C]	0.092	0.0046	mg/Kg dry	0.114	ND	81.0	30-150			
4,4'-DDE	0.10	0.0046	mg/Kg dry	0.114	ND	91.0	30-150			
4,4'-DDE [2C]	0.094	0.0046	mg/Kg dry	0.114	ND	82.6	30-150			
4,4'-DDT	0.11	0.0046	mg/Kg dry	0.114	0.0078	92.2	30-150			
4,4'-DDT [2C]	0.098	0.0046	mg/Kg dry	0.114	0.0063	80.6	30-150			
Dieldrin	0.095	0.0046	mg/Kg dry	0.114	ND	83.0	30-150			
Dieldrin [2C]	0.082	0.0046	mg/Kg dry	0.114	ND	71.6	30-150			
Endosulfan I	0.092	0.0057	mg/Kg dry	0.114	ND	80.5	30-150			
Endosulfan I [2C]	0.082	0.0057	mg/Kg dry	0.114	ND	72.1	30-150			
Endosulfan II	0.096	0.0091	mg/Kg dry	0.114	ND	84.0	30-150			
Endosulfan II [2C]	0.093	0.0091	mg/Kg dry	0.114	ND	81.1	30-150			
Endosulfan Sulfate	0.076	0.0091	mg/Kg dry	0.114	ND	66.7	30-150			
Endosulfan Sulfate [2C]	0.080	0.0091	mg/Kg dry	0.114	ND	70.2	30-150			
Endrin	0.070	0.0091	mg/Kg dry	0.114	ND	61.7	30-150			
Endrin [2C]	0.063	0.0091	mg/Kg dry	0.114	ND	55.6	30-150			
Endrin Aldehyde	0.097	0.0091	mg/Kg dry	0.114	ND	85.3	30-150			
Endrin Aldehyde [2C]	0.10	0.0091	mg/Kg dry	0.114	ND	88.1	30-150			
Endrin Ketone	0.12	0.0091	mg/Kg dry	0.114	ND	108	30-150			
Endrin Ketone [2C]	0.12	0.0091	mg/Kg dry	0.114	ND	103	30-150			
Heptachlor	0.060	0.0057	mg/Kg dry	0.114	ND	52.7	30-150			
Heptachlor [2C]	0.067	0.0057	mg/Kg dry	0.114	ND	58.5	30-150			
Heptachlor Epoxide	0.084	0.0057	mg/Kg dry	0.114	ND	73.8	30-150			
Heptachlor Epoxide [2C]	0.076	0.0057	mg/Kg dry	0.114	ND	66.8	30-150			
Hexachlorobenzene	0.051	0.0068	mg/Kg dry	0.114	ND	44.7	30-150			
Hexachlorobenzene [2C]	0.047	0.0068	mg/Kg dry	0.114	ND	41.4	30-150			
Methoxychlor	0.11	0.057	mg/Kg dry	0.114	ND	96.5	30-150			
Methoxychlor [2C]	0.11	0.057	mg/Kg dry	0.114	ND	99.3	30-150			
Surrogate: Decachlorobiphenyl	0.244		mg/Kg dry	0.228		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.229		mg/Kg dry	0.228		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.115		mg/Kg dry	0.228		50.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.105		mg/Kg dry	0.228		46.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217863 - SW-846 3546										
Matrix Spike Dup (B217863-MSD1)										
		Source: 18K0931-01			Prepared: 11/26/18 Analyzed: 11/29/18					
Alachlor	0.059	0.023	mg/Kg dry	0.114	ND	51.5	30-150	3.19	30	
Alachlor [2C]	0.057	0.023	mg/Kg dry	0.114	ND	49.7	30-150	4.70	30	
Aldrin	0.071	0.0057	mg/Kg dry	0.114	ND	62.5	30-150	13.7	30	
Aldrin [2C]	0.064	0.0057	mg/Kg dry	0.114	ND	55.8	30-150	13.5	30	
alpha-BHC	0.035	0.0057	mg/Kg dry	0.114	ND	30.3	30-150	22.2	30	
alpha-BHC [2C]	0.034	0.0057	mg/Kg dry	0.114	ND	29.9 *	30-150	19.8	30	MS-22
beta-BHC	0.051	0.0057	mg/Kg dry	0.114	ND	45.1	30-150	18.1	30	
beta-BHC [2C]	0.048	0.0057	mg/Kg dry	0.114	ND	42.4	30-150	17.7	30	
delta-BHC	0.056	0.0057	mg/Kg dry	0.114	ND	49.5	30-150	16.4	30	
delta-BHC [2C]	0.054	0.0057	mg/Kg dry	0.114	ND	47.1	30-150	15.2	30	
gamma-BHC (Lindane)	0.044	0.0023	mg/Kg dry	0.114	ND	38.8	30-150	19.5	30	
gamma-BHC (Lindane) [2C]	0.041	0.0023	mg/Kg dry	0.114	ND	36.2	30-150	18.3	30	
4,4'-DDD	0.094	0.0046	mg/Kg dry	0.114	ND	82.2	30-150	9.08	30	
4,4'-DDD [2C]	0.085	0.0046	mg/Kg dry	0.114	ND	74.3	30-150	8.68	30	
4,4'-DDE	0.093	0.0046	mg/Kg dry	0.114	ND	81.9	30-150	10.5	30	
4,4'-DDE [2C]	0.085	0.0046	mg/Kg dry	0.114	ND	74.2	30-150	10.7	30	
4,4'-DDT	0.10	0.0046	mg/Kg dry	0.114	0.0078	81.5	30-150	11.5	30	
4,4'-DDT [2C]	0.088	0.0046	mg/Kg dry	0.114	0.0063	71.5	30-150	11.1	30	
Dieldrin	0.086	0.0046	mg/Kg dry	0.114	ND	75.6	30-150	9.30	30	
Dieldrin [2C]	0.075	0.0046	mg/Kg dry	0.114	ND	65.6	30-150	8.70	30	
Endosulfan I	0.082	0.0057	mg/Kg dry	0.114	ND	72.0	30-150	11.2	30	
Endosulfan I [2C]	0.074	0.0057	mg/Kg dry	0.114	ND	64.8	30-150	10.7	30	
Endosulfan II	0.087	0.0091	mg/Kg dry	0.114	ND	76.6	30-150	9.25	30	
Endosulfan II [2C]	0.084	0.0091	mg/Kg dry	0.114	ND	73.8	30-150	9.50	30	
Endosulfan Sulfate	0.077	0.0091	mg/Kg dry	0.114	ND	67.8	30-150	1.60	30	
Endosulfan Sulfate [2C]	0.074	0.0091	mg/Kg dry	0.114	ND	65.1	30-150	7.53	30	
Endrin	0.088	0.0091	mg/Kg dry	0.114	ND	77.5	30-150	22.8	30	
Endrin [2C]	0.080	0.0091	mg/Kg dry	0.114	ND	70.2	30-150	23.3	30	
Endrin Aldehyde	0.099	0.0091	mg/Kg dry	0.114	ND	86.7	30-150	1.59	30	
Endrin Aldehyde [2C]	0.10	0.0091	mg/Kg dry	0.114	ND	88.2	30-150	0.132	30	
Endrin Ketone	0.094	0.0091	mg/Kg dry	0.114	ND	82.0	30-150	27.6	30	
Endrin Ketone [2C]	0.091	0.0091	mg/Kg dry	0.114	ND	79.8	30-150	25.0	30	
Heptachlor	0.051	0.0057	mg/Kg dry	0.114	ND	44.9	30-150	15.9	30	
Heptachlor [2C]	0.058	0.0057	mg/Kg dry	0.114	ND	50.5	30-150	14.7	30	
Heptachlor Epoxide	0.074	0.0057	mg/Kg dry	0.114	ND	65.1	30-150	12.5	30	
Heptachlor Epoxide [2C]	0.067	0.0057	mg/Kg dry	0.114	ND	59.0	30-150	12.4	30	
Hexachlorobenzene	0.042	0.0068	mg/Kg dry	0.114	ND	37.2	30-150	18.2	30	
Hexachlorobenzene [2C]	0.040	0.0068	mg/Kg dry	0.114	ND	34.7	30-150	17.7	30	
Methoxychlor	0.10	0.057	mg/Kg dry	0.114	ND	88.0	30-150	9.23	30	
Methoxychlor [2C]	0.10	0.057	mg/Kg dry	0.114	ND	88.3	30-150	11.6	30	
Surrogate: Decachlorobiphenyl	0.243		mg/Kg dry	0.228		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.230		mg/Kg dry	0.228		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.110		mg/Kg dry	0.228		48.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.101		mg/Kg dry	0.228		44.3	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217862 - SW-846 3546										
Blank (B217862-BLK1)										
Prepared: 11/26/18 Analyzed: 11/27/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.3	30-150			
LCS (B217862-BS1)										
Prepared: 11/26/18 Analyzed: 11/27/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.7	40-140			
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.4	30-150			
LCS Dup (B217862-BSD1)										
Prepared: 11/26/18 Analyzed: 11/27/18										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	8.97	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.8	40-140	8.98	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.1	40-140	8.85	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		94.9	40-140	9.10	30	
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217799 - SW-846 8151

Blank (B217799-BLK1)

Prepared: 11/26/18 Analyzed: 11/29/18

2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	66.0		µg/kg wet	95.2		69.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	63.3		µg/kg wet	95.2		66.4	30-150			

LCS (B217799-BS1)

Prepared: 11/26/18 Analyzed: 11/29/18

2,4-D	104	25	µg/kg wet	125		83.3	40-140			
2,4-D [2C]	108	25	µg/kg wet	125		86.1	40-140			
2,4-DB	107	25	µg/kg wet	125		85.7	40-140			
2,4-DB [2C]	105	25	µg/kg wet	125		83.8	40-140			
2,4,5-TP (Silvex)	10.7	2.5	µg/kg wet	12.5		85.4	40-140			
2,4,5-TP (Silvex) [2C]	11.0	2.5	µg/kg wet	12.5		88.1	40-140			
2,4,5-T	10.4	2.5	µg/kg wet	12.5		82.9	40-140			
2,4,5-T [2C]	11.6	2.5	µg/kg wet	12.5		93.1	40-140			
Dalapon	179	62	µg/kg wet	312		57.3	40-140			
Dalapon [2C]	174	62	µg/kg wet	312		55.7	40-140			
Dicamba	10.8	2.5	µg/kg wet	12.5		86.2	40-140			
Dicamba [2C]	10.5	2.5	µg/kg wet	12.5		83.7	40-140			
Dichloroprop	118	25	µg/kg wet	125		94.2	40-140			
Dichloroprop [2C]	108	25	µg/kg wet	125		86.7	40-140			
Dinoseb	13.5	12	µg/kg wet	62.5		21.6	0-42.4			
Dinoseb [2C]	13.8	12	µg/kg wet	62.5		22.1	0-41.1			
MCPA	10300	2500	µg/kg wet	12500		82.5	40-140			
MCPA [2C]	9370	2500	µg/kg wet	12500		74.9	40-140			
MCPP	13700	2500	µg/kg wet	12500		110	40-140			
MCPP [2C]	9600	2500	µg/kg wet	12500		76.8	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	80.7		µg/kg wet	100		80.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	78.0		µg/kg wet	100		78.0	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217799 - SW-846 8151										
LCS Dup (B217799-BSD1)										
					Prepared: 11/26/18 Analyzed: 11/29/18					
2,4-D	97.9	25	µg/kg wet	125		78.3	40-140	6.21	30	
2,4-D [2C]	101	25	µg/kg wet	125		80.6	40-140	6.57	30	
2,4-DB	100	25	µg/kg wet	125		80.3	40-140	6.49	30	
2,4-DB [2C]	101	25	µg/kg wet	125		80.8	40-140	3.67	30	
2,4,5-TP (Silvex)	10.3	2.5	µg/kg wet	12.5		82.5	40-140	3.50	30	
2,4,5-TP (Silvex) [2C]	10.5	2.5	µg/kg wet	12.5		83.8	40-140	4.97	30	
2,4,5-T	9.80	2.5	µg/kg wet	12.5		78.4	40-140	5.63	30	
2,4,5-T [2C]	10.7	2.5	µg/kg wet	12.5		85.6	40-140	8.40	30	
Dalapon	189	62	µg/kg wet	312		60.4	40-140	5.16	30	
Dalapon [2C]	185	62	µg/kg wet	312		59.2	40-140	6.16	30	
Dicamba	10.2	2.5	µg/kg wet	12.5		82.0	40-140	4.96	30	
Dicamba [2C]	9.73	2.5	µg/kg wet	12.5		77.8	40-140	7.32	30	
Dichloroprop	105	25	µg/kg wet	125		84.2	40-140	11.3	30	
Dichloroprop [2C]	103	25	µg/kg wet	125		82.0	40-140	5.55	30	
Dinoseb	13.3	12	µg/kg wet	62.5		21.3	0-42.4	1.47	30	
Dinoseb [2C]	13.8	12	µg/kg wet	62.5		22.1	0-41.1	0.259	30	
MCPA	9290	2500	µg/kg wet	12500		74.4	40-140	10.4	30	
MCPA [2C]	8810	2500	µg/kg wet	12500		70.5	40-140	6.11	30	
MCPP	12800	2500	µg/kg wet	12500		102	40-140	7.18	30	
MCPP [2C]	9130	2500	µg/kg wet	12500		73.0	40-140	5.06	30	
Surrogate: 2,4-Dichlorophenylacetic acid	77.5		µg/kg wet	100		77.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	73.0		µg/kg wet	100		73.0	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217782 - SW-846 3546										
Blank (B217782-BLK1)										
					Prepared: 11/24/18 Analyzed: 11/27/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.10		mg/Kg wet	3.33		63.1	40-140			
LCS (B217782-BS1)										
					Prepared: 11/24/18 Analyzed: 11/27/18					
TPH (C9-C36)	25.4	8.3	mg/Kg wet	33.3		76.1	40-140			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.2	40-140			
LCS Dup (B217782-BSD1)										
					Prepared: 11/24/18 Analyzed: 11/27/18					
TPH (C9-C36)	23.6	8.3	mg/Kg wet	33.3		70.7	40-140	7.35	30	
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B217937 - SW-846 3050B

Blank (B217937-BLK1)

Prepared: 11/27/18 Analyzed: 11/28/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B217937-BS1)

Prepared: 11/27/18 Analyzed: 11/28/18

Antimony	60.3	4.9	mg/Kg wet	75.5		79.8	3.8-196			
Arsenic	155	4.9	mg/Kg wet	161		96.2	83.2-116.8			
Barium	266	4.9	mg/Kg wet	260		102	82.7-117.3			
Beryllium	95.2	0.49	mg/Kg wet	97.6		97.6	83.4-116.8			
Cadmium	210	0.49	mg/Kg wet	211		99.6	83.4-116.6			
Chromium	136	0.98	mg/Kg wet	136		99.9	82.4-117.6			
Lead	109	1.5	mg/Kg wet	111		98.5	83-117.1			
Nickel	95.6	0.98	mg/Kg wet	91.9		104	82.9-117.5			
Selenium	180	9.8	mg/Kg wet	191		94.4	79.6-120.9			
Silver	45.2	0.98	mg/Kg wet	43.3		104	79.9-119.9			
Thallium	166	4.9	mg/Kg wet	156		107	81.4-119.2			
Vanadium	51.5	2.0	mg/Kg wet	56.7		90.8	79-121.2			
Zinc	199	2.0	mg/Kg wet	199		99.8	81.4-119.1			

LCS Dup (B217937-BSD1)

Prepared: 11/27/18 Analyzed: 11/28/18

Antimony	62.2	4.9	mg/Kg wet	75.5		82.3	3.8-196	3.12	30	
Arsenic	159	4.9	mg/Kg wet	161		99.0	83.2-116.8	2.81	30	
Barium	276	4.9	mg/Kg wet	260		106	82.7-117.3	3.66	30	
Beryllium	96.1	0.49	mg/Kg wet	97.6		98.4	83.4-116.8	0.876	30	
Cadmium	211	0.49	mg/Kg wet	211		99.8	83.4-116.6	0.220	30	
Chromium	140	0.98	mg/Kg wet	136		103	82.4-117.6	2.89	30	
Lead	113	1.5	mg/Kg wet	111		102	83-117.1	3.17	30	
Nickel	97.4	0.98	mg/Kg wet	91.9		106	82.9-117.5	1.82	30	
Selenium	188	9.8	mg/Kg wet	191		98.5	79.6-120.9	4.24	30	
Silver	46.8	0.98	mg/Kg wet	43.3		108	79.9-119.9	3.39	30	
Thallium	167	4.9	mg/Kg wet	156		107	81.4-119.2	0.382	30	
Vanadium	54.4	2.0	mg/Kg wet	56.7		96.0	79-121.2	5.52	30	
Zinc	204	2.0	mg/Kg wet	199		103	81.4-119.1	2.90	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217937 - SW-846 3050B										
MRL Check (B217937-MRL1)					Prepared: 11/27/18 Analyzed: 11/29/18					
Lead	0.636	0.50	mg/Kg wet	0.499		127 *	80-120			M-10
Batch B217947 - SW-846 7471										
Blank (B217947-BLK1)					Prepared: 11/27/18 Analyzed: 11/28/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B217947-BS1)					Prepared: 11/27/18 Analyzed: 11/28/18					
Mercury	13.9	1.9	mg/Kg wet	11.5		121	71.6-127.8			
LCS Dup (B217947-BSD1)					Prepared: 11/27/18 Analyzed: 11/28/18					
Mercury	11.4	1.9	mg/Kg wet	11.5		99.2	71.6-127.8	19.9	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217703 - SW-846 9045C										
LCS (B217703-BS1)				Prepared & Analyzed: 11/20/18						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B217703-DUP1)				Source: 18K0931-01		Prepared & Analyzed: 11/20/18				
pH	4.9		pH Units		4.8			0.453	5	H-03
Batch B217784 - SM21-22 2510B Modified										
Blank (B217784-BLK1)				Prepared & Analyzed: 11/26/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B217784-BS1)				Prepared & Analyzed: 11/26/18						
Specific conductance	200		µmhos/cm	192		106	90-110			
Batch B217892 - % Solids										
Duplicate (B217892-DUP1)				Source: 18K0931-01		Prepared: 11/26/18 Analyzed: 11/27/18				
% Solids	87.5		% Wt		87.7			0.272	20	
Batch B218163 - SW-846 9014										
Blank (B218163-BLK1)				Prepared: 11/29/18 Analyzed: 11/30/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B218163-BS1)				Prepared: 11/29/18 Analyzed: 11/30/18						
Reactive Cyanide	9.5	0.40	mg/Kg	10.0		95.4	83.6-111			
Batch B218234 - SW-846 9030A										
Blank (B218234-BLK1)				Prepared: 11/29/18 Analyzed: 11/30/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B218234-BS1)				Prepared: 11/29/18 Analyzed: 11/30/18						
Reactive Sulfide	13	2.0	mg/Kg	14.8		86.5	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S029734-PEM1 **Analyzed:** 11/27/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.89
Endrin [1] 2.54

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.23
Endrin [2] 2.99

BREAKDOWN REPORT

Lab Sample ID: S029734-PEM2 **Analyzed:** 11/27/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.85
Endrin [1] 2.17

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.14
Endrin [2] 2.54

BREAKDOWN REPORT

Lab Sample ID: S029734-PEM3 **Analyzed:** 11/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.93
Endrin [1] 2.05

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BREAKDOWN REPORT

Lab Sample ID: S029734-PEM3 **Analyzed:** 11/28/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.17
Endrin [2] 2.41

BREAKDOWN REPORT

Lab Sample ID: S029734-PEM5 **Analyzed:** 11/28/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.24
Endrin [1] 1.74

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.78
Endrin [2] 1.99

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

B28

SW-846 8081B

Lab Sample ID: 18K0931-01 Date(s) Analyzed: 11/28/2018 11/28/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.882	7.851	7.911	0.0078	
	2	7.878	7.848	7.908	0.0063	21.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B217799-BS1 Date(s) Analyzed: 11/29/2018 11/29/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.679	0.000	0.000	10.4	
	2	15.213	0.000	0.000	11.6	14.8
2,4,5-TP (Silvex)	1	15.059	0.000	0.000	10.7	
	2	14.371	0.000	0.000	11.0	0.0
2,4-D	1	13.237	0.000	0.000	104	
	2	12.671	0.000	0.000	108	7.7
2,4-DB	1	16.754	0.000	0.000	107	
	2	16.297	0.000	0.000	105	4.7
Dalapon	1	4.404	0.000	0.000	179	
	2	3.874	0.000	0.000	174	3.4
Dicamba	1	11.158	0.000	0.000	10.8	
	2	10.551	0.000	0.000	10.5	4.7
Dichloroprop	1	12.736	0.000	0.000	118	
	2	12.017	0.000	0.000	108	10.5
Dinoseb	1	17.487	0.000	0.000	13.5	
	2	16.787	0.000	0.000	13.8	1.4
MCPA	1	11.965	0.000	0.000	10300	
	2	11.353	0.000	0.000	9370	6.5
MCPD	1	11.640	0.000	0.000	13700	
	2	10.885	0.000	0.000	9600	37.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****LCS Dup***SW-846 8151A*Lab Sample ID: B217799-BSD1 Date(s) Analyzed: 11/29/2018 11/29/2018Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.679	0.000	0.000	9.80	
	2	15.215	0.000	0.000	10.7	8.8
2,4,5-TP (Silvex)	1	15.058	0.000	0.000	10.3	
	2	14.372	0.000	0.000	10.5	4.9
2,4-D	1	13.235	0.000	0.000	97.9	
	2	12.671	0.000	0.000	101	3.0
2,4-DB	1	16.753	0.000	0.000	100	
	2	16.298	0.000	0.000	101	1.0
Dalapon	1	4.403	0.000	0.000	189	
	2	3.873	0.000	0.000	185	2.7
Dicamba	1	11.159	0.000	0.000	10.2	
	2	10.552	0.000	0.000	9.73	2.7
Dichloroprop	1	12.735	0.000	0.000	105	
	2	12.017	0.000	0.000	103	6.6
Dinoseb	1	17.487	0.000	0.000	13.3	
	2	16.786	0.000	0.000	13.8	6.0
MCPA	1	11.963	0.000	0.000	9290	
	2	11.351	0.000	0.000	8810	5.4
MCPP	1	11.640	0.000	0.000	12800	
	2	10.884	0.000	0.000	9130	35.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B217862-BS1 Date(s) Analyzed: 11/27/2018 11/27/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.16	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B217862-BSD1 Date(s) Analyzed: 11/27/2018 11/27/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.18	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217863-BS1 Date(s) Analyzed: 11/28/2018 11/28/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.664	7.634	7.694	0.10	
	2	7.635	7.605	7.665	0.086	15.1
4,4'-DDE	1	7.203	7.173	7.233	0.098	
	2	7.191	7.161	7.221	0.085	14.2
4,4'-DDT	1	7.883	7.854	7.914	0.10	
	2	7.883	7.853	7.913	0.090	10.5
Alachlor	1	6.607	6.577	6.637	0.065	
	2	6.329	6.299	6.359	0.065	0.0
Aldrin	1	6.516	6.486	6.546	0.081	
	2	6.408	6.378	6.438	0.073	10.4
alpha-BHC	1	5.747	5.717	5.777	0.053	
	2	5.651	5.621	5.681	0.052	1.9
alpha-Chlordane	1	7.154	7.123	7.183	0.089	
	2	7.065	7.034	7.094	0.082	8.2
beta-BHC	1	6.020	5.989	6.049	0.062	
	2	5.936	5.903	5.963	0.059	5.0
delta-BHC	1	6.147	6.117	6.177	0.066	
	2	6.133	6.102	6.162	0.064	3.1
Dieldrin	1	7.444	7.414	7.474	0.093	
	2	7.314	7.283	7.343	0.079	16.3
Endosulfan I	1	7.262	7.232	7.292	0.088	
	2	7.107	7.077	7.137	0.080	9.5
Endosulfan II	1	7.800	7.770	7.830	0.092	
	2	7.710	7.679	7.739	0.084	9.1
Endosulfan Sulfate	1	8.407	8.377	8.437	0.088	
	2	8.173	8.143	8.203	0.081	8.3
Endrin	1	7.626	7.595	7.655	0.093	
	2	7.545	7.515	7.575	0.084	10.2
Endrin Aldehyde	1	8.112	8.082	8.142	0.092	
	2	7.971	7.941	8.001	0.085	7.9
Endrin Ketone	1	8.583	8.552	8.612	0.093	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B217863-BS1 Date(s) Analyzed: 11/28/2018 11/28/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.521	8.491	8.551	0.087	6.7
gamma-BHC (Lindane)	1	5.964	5.934	5.994	0.061	
	2	5.882	5.851	5.911	0.057	6.8
gamma-Chlordane	1	7.053	7.024	7.084	0.086	
	2	6.956	6.925	6.985	0.081	6.0
Heptachlor	1	6.298	6.268	6.328	0.059	
	2	6.182	6.152	6.212	0.069	15.6
Heptachlor Epoxide	1	6.962	6.932	6.992	0.082	
	2	6.816	6.786	6.846	0.076	7.6
Hexachlorobenzene	1	5.632	5.602	5.662	0.058	
	2	5.562	5.532	5.592	0.055	5.3
Methoxychlor	1	8.227	8.196	8.256	0.11	
	2	8.372	8.341	8.401	0.10	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B217863-BSD1 Date(s) Analyzed: 11/28/2018 11/28/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.664	7.634	7.694	0.094	
	2	7.636	7.605	7.665	0.082	13.6
4,4'-DDE	1	7.203	7.173	7.233	0.094	
	2	7.191	7.161	7.221	0.081	14.9
4,4'-DDT	1	7.884	7.854	7.914	0.096	
	2	7.883	7.853	7.913	0.084	13.3
Alachlor	1	6.608	6.577	6.637	0.068	
	2	6.330	6.299	6.359	0.067	1.5
Aldrin	1	6.516	6.486	6.546	0.083	
	2	6.409	6.378	6.438	0.074	11.5
alpha-BHC	1	5.747	5.717	5.777	0.060	
	2	5.651	5.621	5.681	0.057	5.1
alpha-Chlordane	1	7.154	7.123	7.183	0.087	
	2	7.065	7.034	7.094	0.079	9.6
beta-BHC	1	6.020	5.989	6.049	0.069	
	2	5.936	5.903	5.963	0.065	6.0
delta-BHC	1	6.147	6.117	6.177	0.070	
	2	6.133	6.102	6.162	0.067	4.4
Dieldrin	1	7.444	7.414	7.474	0.090	
	2	7.314	7.283	7.343	0.076	16.9
Endosulfan I	1	7.262	7.232	7.292	0.086	
	2	7.107	7.077	7.137	0.078	9.8
Endosulfan II	1	7.800	7.770	7.830	0.088	
	2	7.710	7.679	7.739	0.081	8.3
Endosulfan Sulfate	1	8.407	8.377	8.437	0.083	
	2	8.173	8.143	8.203	0.078	6.2
Endrin	1	7.625	7.595	7.655	0.090	
	2	7.546	7.515	7.575	0.081	10.5
Endrin Aldehyde	1	8.113	8.082	8.142	0.094	
	2	7.971	7.941	8.001	0.087	7.7
Endrin Ketone	1	8.584	8.552	8.612	0.088	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B217863-BSD1 Date(s) Analyzed: 11/28/2018 11/28/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.521	8.491	8.551	0.083	5.9
gamma-BHC (Lindane)	1	5.964	5.934	5.994	0.067	
	2	5.882	5.851	5.911	0.062	7.8
gamma-Chlordane	1	7.054	7.024	7.084	0.085	
	2	6.956	6.925	6.985	0.079	7.3
Heptachlor	1	6.298	6.268	6.328	0.062	
	2	6.182	6.152	6.212	0.071	13.5
Heptachlor Epoxide	1	6.962	6.932	6.992	0.082	
	2	6.816	6.786	6.846	0.075	8.9
Hexachlorobenzene	1	5.633	5.602	5.662	0.063	
	2	5.562	5.532	5.592	0.059	6.6
Methoxychlor	1	8.228	8.196	8.256	0.10	
	2	8.371	8.341	8.401	0.096	4.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike

SW-846 8081B

Lab Sample ID: B217863-MS1 Date(s) Analyzed: 11/29/2018 11/29/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.661	7.632	7.692	0.10	
	2	7.630	7.601	7.661	0.092	8.3
4,4'-DDE	1	7.200	7.170	7.230	0.10	
	2	7.186	7.157	7.217	0.094	6.2
4,4'-DDT	1	7.880	7.851	7.911	0.11	
	2	7.878	7.848	7.908	0.098	11.5
Alachlor	1	6.605	6.575	6.635	0.057	
	2	6.325	6.296	6.356	0.054	5.4
Aldrin	1	6.513	6.484	6.544	0.082	
	2	6.404	6.375	6.435	0.073	11.6
alpha-BHC	1	5.745	5.716	5.776	0.043	
	2	5.647	5.618	5.678	0.042	2.4
beta-BHC	1	6.017	5.988	6.048	0.062	
	2	5.932	5.901	5.961	0.058	6.7
delta-BHC	1	6.145	6.115	6.175	0.066	
	2	6.129	6.100	6.160	0.063	4.7
Dieldrin	1	7.441	7.411	7.471	0.095	
	2	7.308	7.279	7.339	0.082	14.7
Endosulfan I	1	7.258	7.229	7.289	0.092	
	2	7.101	7.073	7.133	0.082	11.5
Endosulfan II	1	7.796	7.767	7.827	0.096	
	2	7.704	7.675	7.735	0.093	3.2
Endosulfan Sulfate	1	8.403	8.374	8.434	0.076	
	2	8.168	8.139	8.199	0.080	5.1
Endrin	1	7.621	7.593	7.653	0.070	
	2	7.540	7.511	7.571	0.063	10.5
Endrin Aldehyde	1	8.110	8.080	8.140	0.097	
	2	7.965	7.937	7.997	0.10	3.1
Endrin Ketone	1	8.579	8.551	8.611	0.12	
	2	8.516	8.487	8.547	0.12	0.0
gamma-BHC (Lindane)	1	5.961	5.932	5.992	0.054	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B217863-MS1 Date(s) Analyzed: 11/29/2018 11/29/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.877	5.849	5.909	0.050	7.7
Heptachlor	1	6.295	6.266	6.326	0.060	
	2	6.178	6.149	6.209	0.067	11.0
Heptachlor Epoxide	1	6.958	6.929	6.989	0.084	
	2	6.811	6.783	6.843	0.076	10.0
Hexachlorobenzene	1	5.630	5.600	5.660	0.051	
	2	5.559	5.530	5.590	0.047	8.2
Methoxychlor	1	8.224	8.195	8.255	0.11	
	2	8.367	8.338	8.398	0.11	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B217863-MSD1 Date(s) Analyzed: 11/29/2018 11/29/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.662	7.632	7.692	0.094	
	2	7.630	7.601	7.661	0.085	10.1
4,4'-DDE	1	7.200	7.170	7.230	0.093	
	2	7.186	7.157	7.217	0.085	9.0
4,4'-DDT	1	7.881	7.851	7.911	0.10	
	2	7.878	7.848	7.908	0.088	12.8
Alachlor	1	6.605	6.575	6.635	0.059	
	2	6.325	6.296	6.356	0.057	3.5
Aldrin	1	6.514	6.484	6.544	0.071	
	2	6.404	6.375	6.435	0.064	10.4
alpha-BHC	1	5.745	5.716	5.776	0.035	
	2	5.647	5.618	5.678	0.034	2.9
beta-BHC	1	6.018	5.988	6.048	0.051	
	2	5.933	5.901	5.961	0.048	6.1
delta-BHC	1	6.145	6.115	6.175	0.056	
	2	6.130	6.100	6.160	0.054	3.6
Dieldrin	1	7.441	7.411	7.471	0.086	
	2	7.308	7.279	7.339	0.075	13.7
Endosulfan I	1	7.259	7.229	7.289	0.082	
	2	7.102	7.073	7.133	0.074	10.3
Endosulfan II	1	7.798	7.767	7.827	0.087	
	2	7.704	7.675	7.735	0.084	3.5
Endosulfan Sulfate	1	8.405	8.374	8.434	0.077	
	2	8.169	8.139	8.199	0.074	4.0
Endrin	1	7.623	7.593	7.653	0.088	
	2	7.540	7.511	7.571	0.080	9.5
Endrin Aldehyde	1	8.109	8.080	8.140	0.099	
	2	7.965	7.937	7.997	0.10	1.0
Endrin Ketone	1	8.581	8.551	8.611	0.094	
	2	8.517	8.487	8.547	0.091	3.2
gamma-BHC (Lindane)	1	5.962	5.932	5.992	0.044	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B217863-MSD1 Date(s) Analyzed: 11/29/2018 11/29/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.878	5.849	5.909	0.041	7.1
Heptachlor	1	6.296	6.266	6.326	0.051	
	2	6.178	6.149	6.209	0.058	12.8
Heptachlor Epoxide	1	6.959	6.929	6.989	0.074	
	2	6.812	6.783	6.843	0.067	9.9
Hexachlorobenzene	1	5.630	5.600	5.660	0.042	
	2	5.559	5.530	5.590	0.040	7.2
Methoxychlor	1	8.225	8.195	8.255	0.10	
	2	8.367	8.338	8.398	0.10	0.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8151A in Soil</i>	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
<i>SW-846 8151A in Water</i>	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
p-Isopropyltoluene (p-Cymene)	NH, NY
Methyl tert-Butyl Ether (MTBE)	NH, NY
Methylene Chloride	CT, NH, NY, ME
4-Methyl-2-pentanone (MIBK)	CT, NH, NY
Naphthalene	NH, NY, ME
n-Propylbenzene	NH, NY
Styrene	CT, NH, NY, ME
1,1,1,2-Tetrachloroethane	CT, NH, NY, ME
1,1,2,2-Tetrachloroethane	CT, NH, NY, ME
Tetrachloroethylene	CT, NH, NY, ME
Toluene	CT, NH, NY, ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH, NY, ME
1,1,1-Trichloroethane	CT, NH, NY, ME
1,1,2-Trichloroethane	CT, NH, NY, ME
Trichloroethylene	CT, NH, NY, ME
Trichlorofluoromethane (Freon 11)	CT, NH, NY, ME
1,2,3-Trichloropropane	NH, NY, ME
1,2,4-Trimethylbenzene	CT, NH, NY, ME
1,3,5-Trimethylbenzene	CT, NH, NY, ME
Vinyl Chloride	CT, NH, NY, ME
m+p Xylene	CT, NH, NY, ME
o-Xylene	CT, NH, NY, ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT, NY, NH
Acenaphthylene	CT, NY, NH
Acetophenone	NY, NH
Aniline	NY, NH
Anthracene	CT, NY, NH
Benzo(a)anthracene	CT, NY, NH
Benzo(a)pyrene	CT, NY, NH
Benzo(b)fluoranthene	CT, NY, NH
Benzo(g,h,i)perylene	CT, NY, NH
Benzo(k)fluoranthene	CT, NY, NH
Bis(2-chloroethoxy)methane	CT, NY, NH
Bis(2-chloroethyl)ether	CT, NY, NH
Bis(2-chloroisopropyl)ether	CT, NY, NH
Bis(2-Ethylhexyl)phthalate	CT, NY, NH
4-Bromophenylphenylether	CT, NY, NH
Butylbenzylphthalate	CT, NY, NH
4-Chloroaniline	CT, NY, NH
2-Chloronaphthalene	CT, NY, NH
2-Chlorophenol	CT, NY, NH
Chrysene	CT, NY, NH
Dibenz(a,h)anthracene	CT, NY, NH
Dibenzofuran	CT, NY, NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

http://www.contestlabs.com
Doc # 381 Rev 1_03242017
39 Spruce Street
East Longmeadow, MA 01028

Requested Turnaround Time 7-Day 10-Day
Due Date: 1-Day 3-Day
 2-Day 4-Day
Rush-Approval Required
Data Delivery: PDF EXCEL
Other: Limit Check
CLP Like Data Pkg Required:
Email To:
Fax To #:

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Company Name: VHB
Address: 101 Walnut Street, Watertown, MA
Phone: 617-607-1841
Project Name: Excess Resource Transmission Project
Project Location: Sudbury, Massachusetts
Project Number: 12970.03
Project Manager: Paige Cornell
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TC

Con-Test Work Order #	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
388		11/13	14:00	x	x	S	U

# of Containers	1	2	3	3	3	9
Preservation Code	A	A	A	A	A	M/O I
Container Code	A	A	A	A	A	V A

ANALYSIS REQUESTED

Ignitability, pH, Reactivity

Conductivity

Pesticide/Herbicide

SVOCs, PCBs, TPH

VOCs

MCP 14 Metals

- 1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

- 2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium
 Thioculfate
 O = Other (please define) ...DI
 H2O

- 3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

- PCB ONLY
 Soxhlet
 Non Soxhlet

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

marks

con-test
ANALYTICAL LABORATORY
www.contestlabs.com

TCLP 20x Rule

Date/Time: 11/20/18 13:45
 Date/Time: 11-20-18 13:45
 Date/Time: 11-20-18 17:00
 Date/Time: 11/20/18 17:00

Received by: (signature) _____
 Relinquished by: (signature) _____

Detection/ Limit Requirements: MA
 Special Requirements: MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
 PWSID #

Project Entity: Government Municipality WRTA Other
 Federal City 21 J School Chromatogram
 City Brownfield MBTA AHA-LAP, LLC

Received by: (signature) _____
 Relinquished by: (signature) _____

Date/Time: _____
 Date/Time: _____

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 - Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB
 Received By TJ Date 11/20/2018 Time 1700
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 2.3
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? T Who was notified? LUKE
 Is there enough Volume? T
 Is there Headspace where applicable? NA MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? _____
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-		500 mL Amb.		500 mL Plastic	16 oz Amb.
Meoh-	1	250 mL Amb.		250 mL Plastic	8oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	4oz Amb/Clear
DI-	2	Other Glass		Other Plastic	2oz Amb/Clear
Thiosulfate-		SOC Kit		Plastic Bag	Encore
Sulfuric-		Perchlorate		Ziplock	Frozen:

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	
HCL-		500 mL Amb.		500 mL Plastic	16 oz Amb.
Meoh-		250 mL Amb.		250 mL Plastic	8oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	4oz Amb/Clear
DI-		Other Plastic		Other Glass	2oz Amb/Clear
Thiosulfate-		SOC Kit		Plastic Bag	Encore
Sulfuric-		Perchlorate		Ziplock	Frozen:

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 18K0931
Project Location: Sudbury, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

18K0931-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Tod Kopyscinski

Position: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 12/03/18

December 6, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18K1190

Enclosed are results of analyses for samples received by the laboratory on November 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 12/6/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K1190

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB48	18K1190-01	Soil		SM 2540G	
				SM21-22 2510B	
				Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
SW-846 9045C					
SB40	18K1190-02	Soil		SM 2540G	
				SM21-22 2510B	
				Modified	
				SW-846 1030	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
SW-846 9045C					

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 12/6/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K1190

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB41	18K1190-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB42	18K1190-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 11/30/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K1190-04[SB42]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41]

SW-846 8151A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42]

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Methylene Chloride**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

Tetrahydrofuran

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

Vinyl Chloride

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Diisopropyl Ether (DIPE)**

B218094-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Acetone**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Chloromethane**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

Methylene Chloride

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

Tetrahydrofuran

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218094-BLK1, B218094-BS1, B218094-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Carbon Tetrachloride**

B218094-BS1, B218094-BSD1

SW-846 8270D**Qualifications:****V-04**

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218070-BLK1, B218070-BS1, B218070-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine/Azobenzene**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218070-BLK1, B218070-BS1, B218070-BSD1

Butylbenzylphthalate

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42]

Pyrene

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218070-BLK1, B218070-BS1, B218070-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18K1190-01[SB48], 18K1190-02[SB40], 18K1190-03[SB41], 18K1190-04[SB42], B218066-DUP1

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SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.065	mg/Kg dry	1	R-05	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Bromomethane	ND	0.0065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Chlorodibromomethane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Chloroethane	ND	0.0065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Chloromethane	ND	0.0065	mg/Kg dry	1	V-05	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2-Dibromoethane (EDB)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.0065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,3-Dichloropropane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
cis-1,3-Dichloropropene	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
trans-1,3-Dichloropropene	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Diethyl Ether	ND	0.0065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Diisopropyl Ether (DIPE)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,4-Dioxane	ND	0.065	mg/Kg dry	1	V-16	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Methylene Chloride	ND	0.0065	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Tetrahydrofuran	ND	0.0065	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Trichlorofluoromethane (Freon 11)	ND	0.0065	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
Vinyl Chloride	ND	0.0065	mg/Kg dry	1	L-04	SW-846 8260C	11/29/18	11/29/18 10:51	EEH
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 10:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	95.6	70-130	
4-Bromofluorobenzene	102	70-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Acetophenone	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Aniline	ND	0.44	mg/Kg dry	1	V-04	SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Bis(2-chloroethoxy)methane	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Bis(2-chloroethyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Bis(2-chloroisopropyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
4-Bromophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Butylbenzylphthalate	ND	0.44	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 16:47	CDT
4-Chloroaniline	ND	0.85	mg/Kg dry	1	V-34	SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2-Chloronaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2-Chlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Chrysene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Dibenzofuran	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Di-n-butylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
1,2-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
1,3-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
1,4-Dichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4-Dichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Diethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4-Dimethylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Dimethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4-Dinitrophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,6-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Di-n-octylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
1,2-Diphenylhydrazine/Azobenzene	ND	0.44	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Hexachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Hexachlorobutadiene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Hexachloroethane	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Isophorone	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
3/4-Methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Nitrobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2-Nitrophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
4-Nitrophenol	ND	0.85	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Pentachlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Phenanthrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Phenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Pyrene	ND	0.22	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 16:47	CDT
Pyridine	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
1,2,4-Trichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4,5-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT
2,4,6-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 16:47	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	62.5	30-130	
Phenol-d6	66.0	30-130	
Nitrobenzene-d5	67.7	30-130	
2-Fluorobiphenyl	57.0	30-130	
2,4,6-Tribromophenol	81.2	30-130	
p-Terphenyl-d14	77.1	30-130	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Aldrin [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
alpha-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
beta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
delta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
4,4'-DDD [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
4,4'-DDE [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
4,4'-DDT [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Dieldrin [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endosulfan I [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endosulfan II [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endosulfan sulfate [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endrin [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endrin aldehyde [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Endrin ketone [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Heptachlor [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Hexachlorobenzene [1]	ND	0.0074	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Methoxychlor [1]	ND	0.062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 9:39	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.6	30-150					12/4/18 9:39	
Decachlorobiphenyl [2]		84.5	30-150					12/4/18 9:39	
Tetrachloro-m-xylene [1]		69.0	30-150					12/4/18 9:39	
Tetrachloro-m-xylene [2]		76.2	30-150					12/4/18 9:39	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:38	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.8	30-150					11/29/18 18:38	
Decachlorobiphenyl [2]		81.3	30-150					11/29/18 18:38	
Tetrachloro-m-xylene [1]		83.4	30-150					11/29/18 18:38	
Tetrachloro-m-xylene [2]		86.3	30-150					11/29/18 18:38	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB48

Sampled: 11/15/2018 09:00

Sample ID: 18K1190-01

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
2,4-DB [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
2,4,5-TP (Silvex) [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
2,4,5-T [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
Dalalpon [1]	ND	400	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
Dicamba [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
Dichloroprop [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
Dinoseb [1]	ND	80	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
MCPA [1]	ND	16000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
MCPP [1]	ND	16000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		82.5	30-150					12/1/18 0:02	
2,4-Dichlorophenylacetic acid [2]		105	30-150					12/1/18 0:02	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 09:00

Field Sample #: SB48

Sample ID: 18K1190-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	29	11	mg/Kg dry	1		SW-846 8100 Modified	11/29/18	12/3/18 15:12	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		52.5	40-140					12/3/18 15:12	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 09:00

Field Sample #: SB48

Sample ID: 18K1190-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.2	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Arsenic	4.2	2.2	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Barium	32	2.2	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Beryllium	0.42	0.22	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Cadmium	ND	0.22	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Chromium	13	0.43	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Lead	9.4	0.65	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Mercury	ND	0.032	mg/Kg dry	1		SW-846 7471B	12/5/18	12/6/18 12:12	AJL
Nickel	8.7	0.43	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Selenium	ND	4.3	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Silver	ND	0.43	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Thallium	ND	2.2	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Vanadium	13	0.87	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW
Zinc	17	0.87	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:15	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 09:00

Field Sample #: SB48

Sample ID: 18K1190-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/30/18	11/30/18 16:35	LED
pH @19.2°C	5.2		pH Units	1	H-03	SW-846 9045C	11/28/18	11/28/18 20:30	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/30/18	12/3/18 11:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/30/18	12/3/18 11:00	LL
Specific conductance	ND	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/30/18	11/30/18 14:30	EC
% Solids	77.3		% Wt	1		SM 2540G	12/5/18	12/6/18 11:36	KMG

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.061	mg/Kg dry	1	R-05	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Bromochloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Bromomethane	ND	0.0061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
2-Butanone (MEK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Carbon Disulfide	ND	0.0036	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Chlorodibromomethane	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Chloroethane	ND	0.0061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Chloroform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Chloromethane	ND	0.0061	mg/Kg dry	1	V-05	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2-Dibromoethane (EDB)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.0061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,3-Dichloropropane	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
cis-1,3-Dichloropropene	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
trans-1,3-Dichloropropene	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Diethyl Ether	ND	0.0061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Diisopropyl Ether (DIPE)	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,4-Dioxane	ND	0.061	mg/Kg dry	1	V-16	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Methylene Chloride	ND	0.0061	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Naphthalene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.00061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Tetrahydrofuran	ND	0.0061	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Trichlorofluoromethane (Freon 11)	ND	0.0061	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
Vinyl Chloride	ND	0.0061	mg/Kg dry	1	L-04	SW-846 8260C	11/29/18	11/29/18 11:15	EEH
m+p Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.5	70-130	11/29/18 11:15
Toluene-d8	96.1	70-130	11/29/18 11:15
4-Bromofluorobenzene	103	70-130	11/29/18 11:15

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Aniline	ND	0.41	mg/Kg dry	1	V-04	SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:10	CDT
4-Chloroaniline	ND	0.80	mg/Kg dry	1	V-34	SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
1,2-Diphenylhydrazine/Azobenzene	ND	0.41	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 10:30

Field Sample #: SB40

Sample ID: 18K1190-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Pyrene	ND	0.21	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:10	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.8	30-130					12/3/18 17:10	
Phenol-d6		75.7	30-130					12/3/18 17:10	
Nitrobenzene-d5		79.6	30-130					12/3/18 17:10	
2-Fluorobiphenyl		70.4	30-130					12/3/18 17:10	
2,4,6-Tribromophenol		90.8	30-130					12/3/18 17:10	
p-Terphenyl-d14		92.2	30-130					12/3/18 17:10	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
gamma-BHC (Lindane) [1]	ND	0.0024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Chlordane [1]	ND	0.024	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endosulfan II [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endosulfan sulfate [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endrin [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endrin aldehyde [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Endrin ketone [1]	ND	0.0095	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Hexachlorobenzene [1]	ND	0.0071	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Methoxychlor [1]	ND	0.059	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:06	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					12/4/18 10:06	
Decachlorobiphenyl [2]		73.7	30-150					12/4/18 10:06	
Tetrachloro-m-xylene [1]		66.2	30-150					12/4/18 10:06	
Tetrachloro-m-xylene [2]		70.6	30-150					12/4/18 10:06	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 18:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.8	30-150					11/29/18 18:56	
Decachlorobiphenyl [2]		98.1	30-150					11/29/18 18:56	
Tetrachloro-m-xylene [1]		90.3	30-150					11/29/18 18:56	
Tetrachloro-m-xylene [2]		93.2	30-150					11/29/18 18:56	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB40

Sampled: 11/15/2018 10:30

Sample ID: 18K1190-02

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
2,4-DB [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
2,4,5-TP (Silvex) [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
2,4,5-T [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
Dalalpon [1]	ND	380	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
Dicamba [1]	ND	15	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
Dichloroprop [1]	ND	150	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
Dinoseb [1]	ND	76	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
MCPA [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
MCPP [1]	ND	15000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 0:42	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		88.9	30-150					12/1/18 0:42	
2,4-Dichlorophenylacetic acid [2]		94.5	30-150					12/1/18 0:42	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 10:30

Field Sample #: SB40

Sample ID: 18K1190-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	29	10	mg/Kg dry	1		SW-846 8100 Modified	11/29/18	12/3/18 15:12	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		59.2	40-140					12/3/18 15:12	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 10:30

Field Sample #: SB40

Sample ID: 18K1190-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Arsenic	12	2.0	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Barium	23	2.0	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Beryllium	0.37	0.20	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Cadmium	0.45	0.20	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Chromium	11	0.40	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Lead	8.9	0.60	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	12/5/18	12/6/18 12:14	AJL
Nickel	8.1	0.40	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Vanadium	15	0.80	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW
Zinc	18	0.80	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:20	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 10:30

Field Sample #: SB40

Sample ID: 18K1190-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/30/18	11/30/18 16:35	LED
pH @19°C	5.0		pH Units	1	H-03	SW-846 9045C	11/28/18	11/28/18 20:30	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/30/18	12/3/18 11:00	LL
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	11/30/18	12/3/18 11:00	LL
Specific conductance	4.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/30/18	11/30/18 14:30	EC
% Solids	82.6		% Wt	1		SM 2540G	12/5/18	12/6/18 11:36	KMG

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB41

Sampled: 11/15/2018 11:30

Sample ID: 18K1190-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.078	mg/Kg dry	1	R-05	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Bromomethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Chlorodibromomethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Chloroethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Chloromethane	ND	0.0078	mg/Kg dry	1	V-05	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2-Dibromoethane (EDB)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,3-Dichloropropane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
cis-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
trans-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Diethyl Ether	ND	0.0078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Diisopropyl Ether (DIPE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,4-Dioxane	ND	0.078	mg/Kg dry	1	V-16	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH

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Project Location: Sudbury, MA

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Field Sample #: SB41

Sampled: 11/15/2018 11:30

Sample ID: 18K1190-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Methylene Chloride	ND	0.0078	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Tetrahydrofuran	ND	0.0078	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Trichlorofluoromethane (Freon 11)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
Vinyl Chloride	ND	0.0078	mg/Kg dry	1	L-04	SW-846 8260C	11/29/18	11/29/18 11:40	EEH
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 11:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	11/29/18 11:40
Toluene-d8	96.7	70-130	11/29/18 11:40
4-Bromofluorobenzene	104	70-130	11/29/18 11:40

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Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Aniline	ND	0.42	mg/Kg dry	1	V-04	SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:34	CDT
4-Chloroaniline	ND	0.82	mg/Kg dry	1	V-34	SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
1,2-Diphenylhydrazine/Azobenzene	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT

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Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Pyrene	ND	0.21	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 17:34	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		66.2	30-130					12/3/18 17:34	
Phenol-d6		73.3	30-130					12/3/18 17:34	
Nitrobenzene-d5		73.0	30-130					12/3/18 17:34	
2-Fluorobiphenyl		63.5	30-130					12/3/18 17:34	
2,4,6-Tribromophenol		86.8	30-130					12/3/18 17:34	
p-Terphenyl-d14		90.0	30-130					12/3/18 17:34	

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Field Sample #: SB41

Sampled: 11/15/2018 11:30

Sample ID: 18K1190-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Aldrin [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
alpha-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
beta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
delta-BHC [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
gamma-BHC (Lindane) [1]	ND	0.0025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Chlordane [1]	ND	0.025	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
4,4'-DDD [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
4,4'-DDE [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
4,4'-DDT [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Dieldrin [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endosulfan I [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endosulfan II [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endosulfan sulfate [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endrin [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endrin aldehyde [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Endrin ketone [1]	ND	0.0099	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Heptachlor [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Heptachlor epoxide [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Hexachlorobenzene [1]	ND	0.0074	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Methoxychlor [1]	ND	0.062	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	11/29/18	12/4/18 10:33	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.1	30-150					12/4/18 10:33	
Decachlorobiphenyl [2]		80.9	30-150					12/4/18 10:33	
Tetrachloro-m-xylene [1]		62.0	30-150					12/4/18 10:33	
Tetrachloro-m-xylene [2]		68.3	30-150					12/4/18 10:33	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB41

Sampled: 11/15/2018 11:30

Sample ID: 18K1190-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:13	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.7	30-150					11/29/18 19:13	
Decachlorobiphenyl [2]		80.1	30-150					11/29/18 19:13	
Tetrachloro-m-xylene [1]		80.5	30-150					11/29/18 19:13	
Tetrachloro-m-xylene [2]		83.4	30-150					11/29/18 19:13	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB41

Sampled: 11/15/2018 11:30

Sample ID: 18K1190-03

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
2,4-DB [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
2,4,5-TP (Silvex) [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
2,4,5-T [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
Dalapon [1]	ND	390	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
Dicamba [1]	ND	16	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
Dichloroprop [1]	ND	160	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
Dinoseb [1]	ND	78	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
MCPA [1]	ND	16000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
MCPP [1]	ND	16000	µg/kg dry	5		SW-846 8151A	11/28/18	12/1/18 1:21	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		91.1	30-150					12/1/18 1:21	
2,4-Dichlorophenylacetic acid [2]		104	30-150					12/1/18 1:21	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 11:30

Field Sample #: SB41

Sample ID: 18K1190-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	47	10	mg/Kg dry	1		SW-846 8100 Modified	11/29/18	12/3/18 15:33	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		60.0	40-140					12/3/18 15:33	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 11:30

Field Sample #: SB41

Sample ID: 18K1190-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Arsenic	9.2	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Barium	19	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Beryllium	0.35	0.21	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Cadmium	0.35	0.21	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Chromium	10	0.42	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Lead	8.9	0.63	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Mercury	ND	0.033	mg/Kg dry	1		SW-846 7471B	12/5/18	12/6/18 12:16	AJL
Nickel	7.8	0.42	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Vanadium	13	0.84	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW
Zinc	14	0.84	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:51	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 11:30

Field Sample #: SB41

Sample ID: 18K1190-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/30/18	11/30/18 16:35	LED
pH @19°C	5.2		pH Units	1	H-03	SW-846 9045C	11/28/18	11/28/18 20:30	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	11/30/18	12/3/18 11:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	11/30/18	12/3/18 11:00	LL
Specific conductance	3.6	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/30/18	11/30/18 14:30	EC
% Solids	79.9		% Wt	1		SM 2540G	12/5/18	12/6/18 11:36	KMG

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.35	0.074	mg/Kg dry	1	R-05	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Bromomethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Chlorodibromomethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Chloroethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Chloromethane	ND	0.0074	mg/Kg dry	1	V-05	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2-Dibromoethane (EDB)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,3-Dichloropropane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
cis-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
trans-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Diethyl Ether	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Diisopropyl Ether (DIPE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,4-Dioxane	ND	0.074	mg/Kg dry	1	V-16	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Methylene Chloride	ND	0.0074	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Tetrahydrofuran	ND	0.0074	mg/Kg dry	1	L-04, V-05	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Trichlorofluoromethane (Freon 11)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
Vinyl Chloride	ND	0.0074	mg/Kg dry	1	L-04	SW-846 8260C	11/29/18	11/29/18 12:05	EEH
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	11/29/18	11/29/18 12:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	11/29/18 12:05
Toluene-d8	91.7	70-130	11/29/18 12:05
4-Bromofluorobenzene	89.8	70-130	11/29/18 12:05

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Acenaphthylene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Acetophenone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Aniline	ND	0.42	mg/Kg dry	1	V-04	SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Benzo(a)anthracene	0.95	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Benzo(a)pyrene	0.98	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Benzo(b)fluoranthene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Benzo(g,h,i)perylene	0.69	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Benzo(k)fluoranthene	0.65	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Bis(2-chloroethoxy)methane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Bis(2-chloroethyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Bis(2-chloroisopropyl)ether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
4-Bromophenylphenylether	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Butylbenzylphthalate	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 18:00	CDT
4-Chloroaniline	ND	0.82	mg/Kg dry	1	V-34	SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2-Chloronaphthalene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2-Chlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Chrysene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Dibenzofuran	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Di-n-butylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
1,2-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
1,3-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
1,4-Dichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4-Dichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Diethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4-Dimethylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Dimethylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4-Dinitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,6-Dinitrotoluene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Di-n-octylphthalate	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
1,2-Diphenylhydrazine/Azobenzene	ND	0.42	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Fluoranthene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Hexachlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Hexachlorobutadiene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Hexachloroethane	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Indeno(1,2,3-cd)pyrene	0.78	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Isophorone	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
3/4-Methylphenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Nitrobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2-Nitrophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
4-Nitrophenol	ND	0.82	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Pentachlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Phenanthrene	0.61	0.21	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Phenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Pyrene	2.0	0.21	mg/Kg dry	1	V-05	SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Pyridine	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4,5-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
2,4,6-Trichlorophenol	ND	0.42	mg/Kg dry	1		SW-846 8270D	11/29/18	12/3/18 18:00	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorophenol	62.8		30-130			12/3/18 18:00			
Phenol-d6	68.3		30-130			12/3/18 18:00			
Nitrobenzene-d5	69.4		30-130			12/3/18 18:00			
2-Fluorobiphenyl	59.8		30-130			12/3/18 18:00			
2,4,6-Tribromophenol	84.2		30-130			12/3/18 18:00			
p-Terphenyl-d14	81.3		30-130			12/3/18 18:00			

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.48	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Aldrin [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
alpha-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
beta-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
delta-BHC [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
gamma-BHC (Lindane) [1]	ND	0.048	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Chlordane [1]	ND	0.48	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
4,4'-DDD [1]	ND	0.095	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
4,4'-DDE [1]	ND	0.095	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
4,4'-DDT [2]	0.34	0.095	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Dieldrin [1]	ND	0.095	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endosulfan I [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endosulfan II [1]	ND	0.19	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endosulfan sulfate [1]	ND	0.19	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endrin [1]	ND	0.19	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endrin aldehyde [1]	ND	0.19	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Endrin ketone [1]	ND	0.19	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Heptachlor [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Heptachlor epoxide [1]	ND	0.12	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Hexachlorobenzene [1]	ND	0.14	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Methoxychlor [1]	ND	1.2	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Toxaphene [1]	ND	2.4	mg/Kg dry	20		SW-846 8081B	11/29/18	12/4/18 10:59	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.1	30-150					12/4/18 10:59	
Decachlorobiphenyl [2]		103	30-150					12/4/18 10:59	
Tetrachloro-m-xylene [1]		61.6	30-150					12/4/18 10:59	
Tetrachloro-m-xylene [2]		76.1	30-150					12/4/18 10:59	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1254 [2]	0.23	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1260 [2]	0.18	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	11/28/18	11/29/18 19:31	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	84.4		30-150				11/29/18 19:31		
Decachlorobiphenyl [2]	93.7		30-150				11/29/18 19:31		
Tetrachloro-m-xylene [1]	89.3		30-150				11/29/18 19:31		
Tetrachloro-m-xylene [2]	90.4		30-150				11/29/18 19:31		

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Field Sample #: SB42

Sampled: 11/15/2018 14:00

Sample ID: 18K1190-04

Sample Matrix: Soil

Sample Flags: DL-03

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	310	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
2,4-DB [1]	ND	310	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
2,4,5-TP (Silvex) [1]	ND	31	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
2,4,5-T [1]	ND	31	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
Dalalpon [1]	ND	760	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
Dicamba [1]	ND	31	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
Dichloroprop [1]	ND	310	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
Dinoseb [1]	ND	150	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
MCPA [1]	ND	31000	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
MCPP [1]	ND	31000	µg/kg dry	10		SW-846 8151A	11/28/18	12/1/18 2:01	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		97.3	30-150					12/1/18 2:01	
2,4-Dichlorophenylacetic acid [2]		104	30-150					12/1/18 2:01	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 14:00

Field Sample #: SB42

Sample ID: 18K1190-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	1000	100	mg/Kg dry	10		SW-846 8100 Modified	11/29/18	12/3/18 20:15	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		71.8	40-140					12/3/18 20:15	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 14:00

Field Sample #: SB42

Sample ID: 18K1190-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Arsenic	14	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Barium	57	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Beryllium	0.36	0.21	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Cadmium	0.68	0.21	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Chromium	20	0.41	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Lead	180	0.62	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Mercury	0.038	0.030	mg/Kg dry	1		SW-846 7471B	12/5/18	12/6/18 12:17	AJL
Nickel	15	0.41	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Vanadium	28	0.83	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW
Zinc	50	0.83	mg/Kg dry	1		SW-846 6010D	12/4/18	12/5/18 12:56	QNW

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18K1190

Date Received: 11/28/2018

Sampled: 11/15/2018 14:00

Field Sample #: SB42

Sample ID: 18K1190-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	11/30/18	11/30/18 16:35	LED
pH @19°C	5.3		pH Units	1	H-03	SW-846 9045C	11/28/18	11/28/18 20:30	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	12/1/18	12/3/18 11:00	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	12/1/18	12/3/18 11:00	LL
Specific conductance	8.1	2.0	µmhos/cm	1		SM21-22 2510B Modified	11/30/18	11/30/18 14:30	EC
% Solids	80.6		% Wt	1		SM 2540G	12/5/18	12/6/18 11:36	KMG

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18K1190-01 [SB48]	B218583	12/05/18
18K1190-02 [SB40]	B218583	12/05/18
18K1190-03 [SB41]	B218583	12/05/18
18K1190-04 [SB42]	B218583	12/05/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18K1190-01 [SB48]	B218203	1.00	11/30/18
18K1190-02 [SB40]	B218203	1.00	11/30/18
18K1190-03 [SB41]	B218203	1.00	11/30/18
18K1190-04 [SB42]	B218203	1.00	11/30/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18K1190-01 [SB48]	B218252	50.0	11/30/18
18K1190-02 [SB40]	B218252	50.0	11/30/18
18K1190-03 [SB41]	B218252	50.0	11/30/18
18K1190-04 [SB42]	B218252	50.0	11/30/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218441	1.49	50.0	12/04/18
18K1190-02 [SB40]	B218441	1.51	50.0	12/04/18
18K1190-03 [SB41]	B218441	1.50	50.0	12/04/18
18K1190-04 [SB42]	B218441	1.50	50.0	12/04/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218536	0.598	50.0	12/05/18
18K1190-02 [SB40]	B218536	0.600	50.0	12/05/18
18K1190-03 [SB41]	B218536	0.574	50.0	12/05/18
18K1190-04 [SB42]	B218536	0.611	50.0	12/05/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218069	10.5	10.0	11/29/18
18K1190-02 [SB40]	B218069	10.2	10.0	11/29/18
18K1190-03 [SB41]	B218069	10.1	10.0	11/29/18
18K1190-04 [SB42]	B218069	10.4	10.0	11/29/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218009	10.1	10.0	11/28/18
18K1190-02 [SB40]	B218009	10.5	10.0	11/28/18
18K1190-03 [SB41]	B218009	10.2	10.0	11/28/18
18K1190-04 [SB42]	B218009	10.3	10.0	11/28/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218071	30.3	1.00	11/29/18
18K1190-02 [SB40]	B218071	30.1	1.00	11/29/18
18K1190-03 [SB41]	B218071	30.1	1.00	11/29/18
18K1190-04 [SB42]	B218071	30.0	1.00	11/29/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B217974	20.3	5.00	11/28/18
18K1190-02 [SB40]	B217974	20.0	5.00	11/28/18
18K1190-03 [SB41]	B217974	20.0	5.00	11/28/18
18K1190-04 [SB42]	B217974	20.3	5.00	11/28/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218094	9.89	10.0	11/29/18
18K1190-02 [SB40]	B218094	9.97	10.0	11/29/18
18K1190-03 [SB41]	B218094	8.06	10.0	11/29/18
18K1190-04 [SB42]	B218094	8.36	10.0	11/29/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218070	30.3	1.00	11/29/18
18K1190-02 [SB40]	B218070	30.1	1.00	11/29/18
18K1190-03 [SB41]	B218070	30.1	1.00	11/29/18
18K1190-04 [SB42]	B218070	30.0	1.00	11/29/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218238	25.5	250	11/30/18
18K1190-02 [SB40]	B218238	25.7	250	11/30/18
18K1190-03 [SB41]	B218238	25.4	250	11/30/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-04 [SB42]	B218263	25.1	250	12/01/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-01 [SB48]	B218248	25.5	250	11/30/18
18K1190-02 [SB40]	B218248	25.7	250	11/30/18
18K1190-03 [SB41]	B218248	25.4	250	11/30/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18K1190-04 [SB42]	B218264	25.1	250	12/01/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18K1190-01 [SB48]	B218066	20.0	11/28/18
18K1190-02 [SB40]	B218066	20.0	11/28/18
18K1190-03 [SB41]	B218066	20.0	11/28/18
18K1190-04 [SB42]	B218066	20.0	11/28/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218094 - SW-846 5035										
Blank (B218094-BLK1)										
Prepared & Analyzed: 11/29/18										
Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							L-04, V-05
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218094 - SW-846 5035

Blank (B218094-BLK1)

Prepared & Analyzed: 11/29/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							L-04, V-05
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							L-04
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0482		mg/Kg wet	0.0500		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0521		mg/Kg wet	0.0500		104	70-130			

LCS (B218094-BS1)

Prepared & Analyzed: 11/29/18

Acetone	0.244	0.10	mg/Kg wet	0.200		122	40-160			R-05 †
tert-Amyl Methyl Ether (TAME)	0.0177	0.0010	mg/Kg wet	0.0200		88.4	70-130			
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130			
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Bromochloromethane	0.0150	0.0020	mg/Kg wet	0.0200		74.8	70-130			
Bromodichloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
Bromoform	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		57.2	40-160			L-14 †
2-Butanone (MEK)	0.199	0.040	mg/Kg wet	0.200		99.3	40-160			†
n-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0163	0.0010	mg/Kg wet	0.0200		81.4	70-130			
Carbon Disulfide	0.0169	0.0060	mg/Kg wet	0.0200		84.7	70-130			
Carbon Tetrachloride	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			V-20
Chlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130			
Chloroethane	0.0157	0.010	mg/Kg wet	0.0200		78.6	70-130			
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130			
Chloromethane	0.0109	0.010	mg/Kg wet	0.0200		54.5	40-160			V-05, L-14 †
2-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130			
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130			
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218094 - SW-846 5035										
LCS (B218094-BS1)										
Prepared & Analyzed: 11/29/18										
Dichlorodifluoromethane (Freon 12)	0.0108	0.010	mg/Kg wet	0.0200		53.9	40-160			L-14 †
1,1-Dichloroethane	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130			
1,2-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
1,1-Dichloroethylene	0.0162	0.0040	mg/Kg wet	0.0200		80.8	70-130			
cis-1,2-Dichloroethylene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
trans-1,2-Dichloroethylene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130			
1,2-Dichloropropane	0.0153	0.0020	mg/Kg wet	0.0200		76.3	70-130			
1,3-Dichloropropane	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
2,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.4	70-130			
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Diethyl Ether	0.0147	0.010	mg/Kg wet	0.0200		73.3	70-130			
Diisopropyl Ether (DIPE)	0.0141	0.0010	mg/Kg wet	0.0200		70.7	70-130			
1,4-Dioxane	0.161	0.10	mg/Kg wet	0.200		80.7	40-160			V-16 †
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Hexachlorobutadiene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
2-Hexanone (MBK)	0.169	0.020	mg/Kg wet	0.200		84.6	40-160			†
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130			
Methylene Chloride	0.0120	0.010	mg/Kg wet	0.0200		59.9 *	70-130			L-04, V-05
4-Methyl-2-pentanone (MIBK)	0.150	0.020	mg/Kg wet	0.200		74.9	40-160			†
Naphthalene	0.0180	0.0040	mg/Kg wet	0.0200		90.2	70-130			
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Styrene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,1,2,2-Tetrachloroethane	0.0186	0.0010	mg/Kg wet	0.0200		93.2	70-130			
Tetrachloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Tetrahydrofuran	0.0129	0.010	mg/Kg wet	0.0200		64.3 *	70-130			L-04, V-05
Toluene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
1,2,3-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,2,4-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,1,1-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Trichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.4	70-130			
1,2,3-Trichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,3,5-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Vinyl Chloride	0.0134	0.010	mg/Kg wet	0.0200		67.0 *	70-130			L-04
m+p Xylene	0.0409	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0529		mg/Kg wet	0.0500		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218094 - SW-846 5035										
LCS Dup (B218094-BSD1)										
Prepared & Analyzed: 11/29/18										
Acetone	0.196	0.10	mg/Kg wet	0.200		98.1	40-160	21.8 *	20	R-05 †
tert-Amyl Methyl Ether (TAME)	0.0171	0.0010	mg/Kg wet	0.0200		85.3	70-130	3.65	20	
Benzene	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	3.14	20	
Bromobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	7.88	20	
Bromochloromethane	0.0155	0.0020	mg/Kg wet	0.0200		77.4	70-130	3.43	20	
Bromodichloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	2.33	20	
Bromoform	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	9.54	20	
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		59.8	40-160	4.43	20	L-14 †
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		92.9	40-160	6.65	20	†
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130	5.35	20	
sec-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	4.11	20	
tert-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	6.01	20	
tert-Butyl Ethyl Ether (TBEE)	0.0161	0.0010	mg/Kg wet	0.0200		80.7	70-130	0.864	20	
Carbon Disulfide	0.0173	0.0060	mg/Kg wet	0.0200		86.4	70-130	1.91	20	
Carbon Tetrachloride	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.57	20	V-20
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.97	20	
Chlorodibromomethane	0.0220	0.0010	mg/Kg wet	0.0200		110	70-130	1.10	20	
Chloroethane	0.0164	0.010	mg/Kg wet	0.0200		81.8	70-130	3.98	20	
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		93.8	70-130	4.29	20	
Chloromethane	0.0110	0.010	mg/Kg wet	0.0200		55.1	40-160	1.11	20	V-05, L-14 †
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	2.90	20	
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.61	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130	1.10	20	
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	0.422	20	
Dibromomethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	3.24	20	
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	3.64	20	
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	5.09	20	
1,4-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	4.78	20	
Dichlorodifluoromethane (Freon 12)	0.0108	0.010	mg/Kg wet	0.0200		53.8	40-160	0.130	20	L-14 †
1,1-Dichloroethane	0.0166	0.0020	mg/Kg wet	0.0200		82.9	70-130	0.793	20	
1,2-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	1.71	20	
1,1-Dichloroethylene	0.0164	0.0040	mg/Kg wet	0.0200		82.2	70-130	1.62	20	
cis-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130	0.220	20	
trans-1,2-Dichloroethylene	0.0162	0.0020	mg/Kg wet	0.0200		81.2	70-130	0.283	20	
1,2-Dichloropropane	0.0160	0.0020	mg/Kg wet	0.0200		80.1	70-130	4.82	20	
1,3-Dichloropropane	0.0169	0.0010	mg/Kg wet	0.0200		84.6	70-130	5.22	20	
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.88	20	
1,1-Dichloropropene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130	4.20	20	
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		88.9	70-130	2.77	20	
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	1.83	20	
Diethyl Ether	0.0140	0.010	mg/Kg wet	0.0200		70.0	70-130	4.63	20	
Diisopropyl Ether (DIPE)	0.0139	0.0010	mg/Kg wet	0.0200		69.3 *	70-130	2.00	20	L-07
1,4-Dioxane	0.193	0.10	mg/Kg wet	0.200		96.7	40-160	18.0	20	V-16 †
Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	1.43	20	
Hexachlorobutadiene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	1.40	20	
2-Hexanone (MBK)	0.166	0.020	mg/Kg wet	0.200		83.0	40-160	1.94	20	†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.31	20	
p-Isopropyltoluene (p-Cymene)	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130	4.21	20	
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.1	70-130	6.86	20	
Methylene Chloride	0.0123	0.010	mg/Kg wet	0.0200		61.7 *	70-130	2.91	20	L-04, V-05
4-Methyl-2-pentanone (MIBK)	0.149	0.020	mg/Kg wet	0.200		74.7	40-160	0.290	20	†
Naphthalene	0.0166	0.0040	mg/Kg wet	0.0200		83.2	70-130	8.13	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218094 - SW-846 5035										
LCS Dup (B218094-BSD1)										
Prepared & Analyzed: 11/29/18										
n-Propylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	1.89	20	
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	4.62	20	
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	7.09	20	
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130	2.16	20	
Tetrachloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	4.09	20	
Tetrahydrofuran	0.0127	0.010	mg/Kg wet	0.0200		63.3 *	70-130	1.52	20	L-04, V-05
Toluene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	1.83	20	
1,2,3-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130	8.56	20	
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	6.73	20	
1,1,1-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	1.36	20	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	4.40	20	
Trichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	2.27	20	
Trichlorofluoromethane (Freon 11)	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	3.55	20	
1,2,3-Trichloropropane	0.0166	0.0020	mg/Kg wet	0.0200		82.9	70-130	13.5	20	
1,2,4-Trimethylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130	4.38	20	
1,3,5-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.619	20	
Vinyl Chloride	0.0131	0.010	mg/Kg wet	0.0200		65.4 *	70-130	2.48	20	L-04
m+p Xylene	0.0396	0.0040	mg/Kg wet	0.0400		99.0	70-130	3.19	20	
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	1.65	20	
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: Toluene-d8	0.0496		mg/Kg wet	0.0500		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0530		mg/Kg wet	0.0500		106	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218070 - SW-846 3546

Blank (B218070-BLK1)

Prepared: 11/29/18 Analyzed: 11/30/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							V-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218070 - SW-846 3546										
Blank (B218070-BLK1)										
Prepared: 11/29/18 Analyzed: 11/30/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.56		mg/Kg wet	6.67		68.4	30-130			
Surrogate: Phenol-d6	4.84		mg/Kg wet	6.67		72.5	30-130			
Surrogate: Nitrobenzene-d5	2.33		mg/Kg wet	3.33		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.3	30-130			
Surrogate: 2,4,6-Tribromophenol	5.28		mg/Kg wet	6.67		79.3	30-130			
Surrogate: p-Terphenyl-d14	2.66		mg/Kg wet	3.33		79.9	30-130			
LCS (B218070-BS1)										
Prepared: 11/29/18 Analyzed: 11/30/18										
Acenaphthene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Acenaphthylene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Acetophenone	1.21	0.34	mg/Kg wet	1.67		72.9	40-140			
Aniline	0.883	0.34	mg/Kg wet	1.67		53.0	40-140			V-04
Anthracene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140			
Benzo(k)fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.3	40-140			
Bis(2-chloroethoxy)methane	1.47	0.34	mg/Kg wet	1.67		88.3	40-140			
Bis(2-chloroethyl)ether	1.27	0.34	mg/Kg wet	1.67		76.1	40-140			
Bis(2-chloroisopropyl)ether	1.43	0.34	mg/Kg wet	1.67		85.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.15	0.34	mg/Kg wet	1.67		68.9	40-140			
4-Bromophenylphenylether	1.40	0.34	mg/Kg wet	1.67		83.8	40-140			
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		69.2	40-140			
4-Chloroaniline	0.610	0.66	mg/Kg wet	1.67		36.6	15-140			V-34 †
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.7	30-130			
Chrysene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
1,2-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
1,3-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.7	40-140			
1,4-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.2	40-140			
3,3-Dichlorobenzidine	0.833	0.17	mg/Kg wet	1.67		50.0	40-140			
2,4-Dichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130			
Diethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.9	40-140			
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.67		78.3	30-130			
Dimethylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
2,4-Dinitrophenol	1.12	0.66	mg/Kg wet	1.67		67.3	15-140			†
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.5	40-140			
Di-n-octylphthalate	1.06	0.34	mg/Kg wet	1.67		63.8	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.11	0.34	mg/Kg wet	1.67		66.8	40-140			V-05
Fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140			
Fluorene	1.23	0.17	mg/Kg wet	1.67		73.5	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218070 - SW-846 3546

LCS (B218070-BS1)

Prepared: 11/29/18 Analyzed: 11/30/18

Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.8	40-140			
Hexachlorobutadiene	1.33	0.34	mg/Kg wet	1.67		79.6	40-140			
Hexachloroethane	1.14	0.34	mg/Kg wet	1.67		68.5	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Isophorone	1.34	0.34	mg/Kg wet	1.67		80.7	40-140			
2-Methylnaphthalene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140			
2-Methylphenol	1.30	0.34	mg/Kg wet	1.67		78.0	30-130			
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0	30-130			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140			
Nitrobenzene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
2-Nitrophenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130			
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.2	15-140			†
Pentachlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5	30-130			
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Phenol	1.24	0.34	mg/Kg wet	1.67		74.6	15-140			†
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Pyridine	0.827	0.34	mg/Kg wet	1.67		49.6	30-140			†
1,2,4-Trichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.4	30-130			
2,4,6-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.8	30-130			
Surrogate: 2-Fluorophenol	5.34		mg/Kg wet	6.67		80.1	30-130			
Surrogate: Phenol-d6	5.45		mg/Kg wet	6.67		81.8	30-130			
Surrogate: Nitrobenzene-d5	2.72		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.31		mg/Kg wet	3.33		69.4	30-130			
Surrogate: 2,4,6-Tribromophenol	5.45		mg/Kg wet	6.67		81.7	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg wet	3.33		77.0	30-130			

LCS Dup (B218070-BSD1)

Prepared: 11/29/18 Analyzed: 11/30/18

Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	2.09	30	
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140	2.64	30	
Acetophenone	1.17	0.34	mg/Kg wet	1.67		69.9	40-140	4.12	30	
Aniline	0.839	0.34	mg/Kg wet	1.67		50.3	40-140	5.11	30	V-04
Anthracene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140	1.97	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	3.54	30	
Benzo(a)pyrene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	2.81	30	
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	4.59	30	
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	1.85	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	4.38	30	
Bis(2-chloroethoxy)methane	1.41	0.34	mg/Kg wet	1.67		84.5	40-140	4.47	30	
Bis(2-chloroethyl)ether	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	4.05	30	
Bis(2-chloroisopropyl)ether	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	3.76	30	
Bis(2-Ethylhexyl)phthalate	1.13	0.34	mg/Kg wet	1.67		67.5	40-140	2.05	30	
4-Bromophenylphenylether	1.31	0.34	mg/Kg wet	1.67		78.8	40-140	6.08	30	
Butylbenzylphthalate	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	2.75	30	
4-Chloroaniline	0.575	0.66	mg/Kg wet	1.67		34.5	15-140	6.02	30	V-34 †
2-Chloronaphthalene	1.03	0.34	mg/Kg wet	1.67		62.0	40-140	9.67	30	
2-Chlorophenol	1.25	0.34	mg/Kg wet	1.67		75.1	30-130	4.68	30	
Chrysene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	2.93	30	
Dibenz(a,h)anthracene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	2.91	30	
Dibenzofuran	1.24	0.34	mg/Kg wet	1.67		74.2	40-140	2.66	30	
Di-n-butylphthalate	1.23	0.34	mg/Kg wet	1.67		74.1	40-140	1.87	30	
1,2-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	4.30	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218070 - SW-846 3546										
LCS Dup (B218070-BSD1)										
					Prepared: 11/29/18 Analyzed: 11/30/18					
1,3-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8	40-140	2.80	30	
1,4-Dichlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	3.26	30	
3,3-Dichlorobenzidine	0.810	0.17	mg/Kg wet	1.67		48.6	40-140	2.80	30	
2,4-Dichlorophenol	1.23	0.34	mg/Kg wet	1.67		74.1	30-130	3.71	30	
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	0.969	30	
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.5	30-130	3.62	30	
Dimethylphthalate	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	0.917	30	
2,4-Dinitrophenol	1.12	0.66	mg/Kg wet	1.67		67.4	15-140	0.178	30	†
2,4-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	1.14	30	
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.3	40-140	0.249	30	
Di-n-octylphthalate	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	3.38	30	
1,2-Diphenylhydrazine/Azobenzene	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	4.94	30	V-05
Fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	2.00	30	
Fluorene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	1.26	30	
Hexachlorobenzene	1.30	0.34	mg/Kg wet	1.67		78.2	40-140	4.55	30	
Hexachlorobutadiene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140	3.55	30	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.7	40-140	4.26	30	
Indeno(1,2,3-cd)pyrene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	3.03	30	
Isophorone	1.31	0.34	mg/Kg wet	1.67		78.7	40-140	2.53	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	2.33	30	
2-Methylphenol	1.28	0.34	mg/Kg wet	1.67		76.6	30-130	1.81	30	
3/4-Methylphenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130	2.96	30	
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	3.97	30	
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	3.41	30	
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130	3.54	30	
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.6	15-140	0.672	30	†
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.2	30-130	3.78	30	
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	2.81	30	
Phenol	1.18	0.34	mg/Kg wet	1.67		70.6	15-140	5.51	30	†
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	2.82	30	
Pyridine	0.808	0.34	mg/Kg wet	1.67		48.5	30-140	2.37	30	†
1,2,4-Trichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.4	40-140	3.30	30	
2,4,5-Trichlorophenol	1.25	0.34	mg/Kg wet	1.67		74.7	30-130	0.375	30	
2,4,6-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.1	30-130	3.58	30	
Surrogate: 2-Fluorophenol	4.99		mg/Kg wet	6.67		74.8	30-130			
Surrogate: Phenol-d6	5.10		mg/Kg wet	6.67		76.5	30-130			
Surrogate: Nitrobenzene-d5	2.55		mg/Kg wet	3.33		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.15		mg/Kg wet	3.33		64.4	30-130			
Surrogate: 2,4,6-Tribromophenol	5.30		mg/Kg wet	6.67		79.4	30-130			
Surrogate: p-Terphenyl-d14	2.47		mg/Kg wet	3.33		74.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218069 - SW-846 3546

Blank (B218069-BLK1)

Prepared: 11/29/18 Analyzed: 12/04/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.163		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218069 - SW-846 3546										
LCS (B218069-BS1)										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140			
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140			
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140			
Alachlor	0.066	0.020	mg/Kg wet	0.100		66.0	40-140			
Alachlor [2C]	0.069	0.020	mg/Kg wet	0.100		69.5	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140			
Aldrin [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
alpha-BHC	0.050	0.0050	mg/Kg wet	0.100		50.2	40-140			
alpha-BHC [2C]	0.053	0.0050	mg/Kg wet	0.100		52.5	40-140			
beta-BHC	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.6	40-140			
delta-BHC	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140			
delta-BHC [2C]	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140			
gamma-BHC (Lindane)	0.060	0.0020	mg/Kg wet	0.100		60.3	40-140			
gamma-BHC (Lindane) [2C]	0.061	0.0020	mg/Kg wet	0.100		60.6	40-140			
4,4'-DDD	0.099	0.0040	mg/Kg wet	0.100		99.1	40-140			
4,4'-DDD [2C]	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140			
4,4'-DDE	0.099	0.0040	mg/Kg wet	0.100		99.4	40-140			
4,4'-DDE [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140			
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		95.7	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
Dieldrin	0.089	0.0040	mg/Kg wet	0.100		89.2	40-140			
Dieldrin [2C]	0.086	0.0040	mg/Kg wet	0.100		85.7	40-140			
Endosulfan I	0.088	0.0050	mg/Kg wet	0.100		88.1	40-140			
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.2	40-140			
Endosulfan II	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		89.8	40-140			
Endosulfan Sulfate	0.087	0.0080	mg/Kg wet	0.100		86.5	40-140			
Endosulfan Sulfate [2C]	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140			
Endrin	0.092	0.0080	mg/Kg wet	0.100		91.7	40-140			
Endrin [2C]	0.090	0.0080	mg/Kg wet	0.100		89.6	40-140			
Endrin Aldehyde	0.091	0.0080	mg/Kg wet	0.100		90.9	40-140			
Endrin Aldehyde [2C]	0.089	0.0080	mg/Kg wet	0.100		88.8	40-140			
Endrin Ketone	0.094	0.0080	mg/Kg wet	0.100		93.5	40-140			
Endrin Ketone [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Heptachlor	0.058	0.0050	mg/Kg wet	0.100		58.0	40-140			
Heptachlor [2C]	0.074	0.0050	mg/Kg wet	0.100		74.5	40-140			
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140			
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140			
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.0	40-140			
Hexachlorobenzene [2C]	0.086	0.0060	mg/Kg wet	0.100		86.2	40-140			
Methoxychlor	0.094	0.050	mg/Kg wet	0.100		93.7	40-140			
Methoxychlor [2C]	0.095	0.050	mg/Kg wet	0.100		95.0	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.149		mg/Kg wet	0.200		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.3	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218069 - SW-846 3546										
LCS Dup (B218069-BSD1)										
					Prepared: 11/29/18 Analyzed: 12/04/18					
alpha-Chlordane	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	0.413	30	
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		89.1	40-140	0.644	30	
gamma-Chlordane	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	1.29	30	
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140	0.300	30	
Alachlor	0.063	0.020	mg/Kg wet	0.100		62.6	40-140	5.35	30	
Alachlor [2C]	0.065	0.020	mg/Kg wet	0.100		65.4	40-140	6.00	30	
Aldrin	0.079	0.0050	mg/Kg wet	0.100		79.1	40-140	5.21	30	
Aldrin [2C]	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	3.47	30	
alpha-BHC	0.044	0.0050	mg/Kg wet	0.100		44.1	40-140	12.9	30	
alpha-BHC [2C]	0.047	0.0050	mg/Kg wet	0.100		46.8	40-140	11.5	30	
beta-BHC	0.060	0.0050	mg/Kg wet	0.100		60.2	40-140	15.8	30	
beta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		63.1	40-140	11.2	30	
delta-BHC	0.064	0.0050	mg/Kg wet	0.100		64.1	40-140	12.2	30	
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.6	40-140	10.6	30	
gamma-BHC (Lindane)	0.052	0.0020	mg/Kg wet	0.100		51.6	40-140	15.5	30	
gamma-BHC (Lindane) [2C]	0.053	0.0020	mg/Kg wet	0.100		52.9	40-140	13.6	30	
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		103	40-140	3.73	30	
4,4'-DDD [2C]	0.098	0.0040	mg/Kg wet	0.100		98.3	40-140	4.75	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140	2.04	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	5.63	30	
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		89.5	40-140	6.65	30	
4,4'-DDT [2C]	0.095	0.0040	mg/Kg wet	0.100		95.0	40-140	5.72	30	
Dieldrin	0.090	0.0040	mg/Kg wet	0.100		89.6	40-140	0.372	30	
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		86.9	40-140	1.38	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	0.996	30	
Endosulfan I [2C]	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140	0.178	30	
Endosulfan II	0.093	0.0080	mg/Kg wet	0.100		92.7	40-140	1.96	30	
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.4	40-140	1.73	30	
Endosulfan Sulfate	0.090	0.0080	mg/Kg wet	0.100		90.5	40-140	4.47	30	
Endosulfan Sulfate [2C]	0.092	0.0080	mg/Kg wet	0.100		91.6	40-140	4.08	30	
Endrin	0.092	0.0080	mg/Kg wet	0.100		92.4	40-140	0.799	30	
Endrin [2C]	0.091	0.0080	mg/Kg wet	0.100		91.0	40-140	1.56	30	
Endrin Aldehyde	0.099	0.0080	mg/Kg wet	0.100		98.9	40-140	8.43	30	
Endrin Aldehyde [2C]	0.096	0.0080	mg/Kg wet	0.100		96.2	40-140	7.90	30	
Endrin Ketone	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140	4.28	30	
Endrin Ketone [2C]	0.096	0.0080	mg/Kg wet	0.100		95.9	40-140	5.07	30	
Heptachlor	0.052	0.0050	mg/Kg wet	0.100		52.0	40-140	10.8	30	
Heptachlor [2C]	0.068	0.0050	mg/Kg wet	0.100		67.9	40-140	9.22	30	
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140	4.07	30	
Heptachlor Epoxide [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140	2.72	30	
Hexachlorobenzene	0.083	0.0060	mg/Kg wet	0.100		83.2	40-140	0.242	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		86.6	40-140	0.508	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		98.3	40-140	4.78	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		101	40-140	6.43	30	
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.200		65.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218009 - SW-846 3546										
Blank (B218009-BLK1)										
Prepared: 11/28/18 Analyzed: 11/29/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.131		mg/Kg wet	0.200		65.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.135		mg/Kg wet	0.200		67.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.123		mg/Kg wet	0.200		61.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.123		mg/Kg wet	0.200		61.4	30-150			
LCS (B218009-BS1)										
Prepared: 11/28/18 Analyzed: 11/29/18										
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		62.6	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		64.2	40-140			
Aroclor-1260	0.12	0.020	mg/Kg wet	0.200		61.0	40-140			
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.3	40-140			
Surrogate: Decachlorobiphenyl	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.142		mg/Kg wet	0.200		71.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.132		mg/Kg wet	0.200		65.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg wet	0.200		66.2	30-150			
LCS Dup (B218009-BSD1)										
Prepared: 11/28/18 Analyzed: 11/29/18										
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		67.3	40-140	7.17	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		69.3	40-140	7.60	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		66.2	40-140	8.14	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		68.1	40-140	8.93	30	
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		75.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.7	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217974 - SW-846 8151										
Blank (B217974-BLK1)										
Prepared: 11/28/18 Analyzed: 11/29/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	72.3		µg/kg wet	95.2		75.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	69.3		µg/kg wet	95.2		72.7	30-150			
LCS (B217974-BS1)										
Prepared: 11/28/18 Analyzed: 11/29/18										
2,4-D	113	25	µg/kg wet	125		90.6	40-140			
2,4-D [2C]	116	25	µg/kg wet	125		92.6	40-140			
2,4-DB	116	25	µg/kg wet	125		92.9	40-140			
2,4-DB [2C]	115	25	µg/kg wet	125		92.2	40-140			
2,4,5-TP (Silvex)	11.8	2.5	µg/kg wet	12.5		94.0	40-140			
2,4,5-TP (Silvex) [2C]	12.0	2.5	µg/kg wet	12.5		95.7	40-140			
2,4,5-T	11.2	2.5	µg/kg wet	12.5		89.3	40-140			
2,4,5-T [2C]	12.3	2.5	µg/kg wet	12.5		98.4	40-140			
Dalapon	193	62	µg/kg wet	312		61.7	40-140			
Dalapon [2C]	191	62	µg/kg wet	312		61.1	40-140			
Dicamba	11.4	2.5	µg/kg wet	12.5		91.6	40-140			
Dicamba [2C]	11.1	2.5	µg/kg wet	12.5		89.1	40-140			
Dichloroprop	119	25	µg/kg wet	125		94.9	40-140			
Dichloroprop [2C]	117	25	µg/kg wet	125		93.6	40-140			
Dinoseb	15.4	12	µg/kg wet	62.5		24.6	0-42.4			
Dinoseb [2C]	16.0	12	µg/kg wet	62.5		25.5	0-41.1			
MCPA	10900	2500	µg/kg wet	12500		87.2	40-140			
MCPA [2C]	10000	2500	µg/kg wet	12500		80.3	40-140			
MCPP	14700	2500	µg/kg wet	12500		118	40-140			
MCPP [2C]	10400	2500	µg/kg wet	12500		83.2	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	86.8		µg/kg wet	100		86.8	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	83.6		µg/kg wet	100		83.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B217974 - SW-846 8151										
LCS Dup (B217974-BSD1)										
					Prepared: 11/28/18 Analyzed: 11/29/18					
2,4-D	102	25	µg/kg wet	125		81.5	40-140	10.6	30	
2,4-D [2C]	105	25	µg/kg wet	125		83.7	40-140	10.1	30	
2,4-DB	103	25	µg/kg wet	125		82.2	40-140	12.3	30	
2,4-DB [2C]	102	25	µg/kg wet	125		81.7	40-140	12.1	30	
2,4,5-TP (Silvex)	10.6	2.5	µg/kg wet	12.5		84.8	40-140	10.4	30	
2,4,5-TP (Silvex) [2C]	10.7	2.5	µg/kg wet	12.5		86.0	40-140	10.7	30	
2,4,5-T	10.0	2.5	µg/kg wet	12.5		80.0	40-140	11.0	30	
2,4,5-T [2C]	11.1	2.5	µg/kg wet	12.5		88.6	40-140	10.5	30	
Dalapon	170	62	µg/kg wet	312		54.5	40-140	12.5	30	
Dalapon [2C]	169	62	µg/kg wet	312		53.9	40-140	12.5	30	
Dicamba	10.4	2.5	µg/kg wet	12.5		82.8	40-140	10.0	30	
Dicamba [2C]	10.2	2.5	µg/kg wet	12.5		81.3	40-140	9.14	30	
Dichloroprop	106	25	µg/kg wet	125		84.8	40-140	11.2	30	
Dichloroprop [2C]	106	25	µg/kg wet	125		84.9	40-140	9.84	30	
Dinoseb	17.3	12	µg/kg wet	62.5		27.7	0-42.4	11.8	30	
Dinoseb [2C]	17.6	12	µg/kg wet	62.5		28.2	0-41.1	9.70	30	
MCPA	9580	2500	µg/kg wet	12500		76.6	40-140	12.9	30	
MCPA [2C]	9070	2500	µg/kg wet	12500		72.6	40-140	10.1	30	
MCPP	13400	2500	µg/kg wet	12500		107	40-140	9.18	30	
MCPP [2C]	9190	2500	µg/kg wet	12500		73.5	40-140	12.4	30	
Surrogate: 2,4-Dichlorophenylacetic acid	76.7		µg/kg wet	100		76.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	75.6		µg/kg wet	100		75.6	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218071 - SW-846 3546										
Blank (B218071-BLK1)										
					Prepared: 11/29/18 Analyzed: 11/30/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.17		mg/Kg wet	3.33		65.0	40-140			
LCS (B218071-BS1)										
					Prepared: 11/29/18 Analyzed: 11/30/18					
TPH (C9-C36)	25.1	8.3	mg/Kg wet	33.3		75.3	40-140			
Surrogate: 2-Fluorobiphenyl	2.41		mg/Kg wet	3.33		72.3	40-140			
LCS Dup (B218071-BSD1)										
					Prepared: 11/29/18 Analyzed: 11/30/18					
TPH (C9-C36)	26.1	8.3	mg/Kg wet	33.3		78.3	40-140	3.96	30	
Surrogate: 2-Fluorobiphenyl	2.47		mg/Kg wet	3.33		74.0	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218441 - SW-846 3050B

Blank (B218441-BLK1)

Prepared: 12/04/18 Analyzed: 12/05/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B218441-BS1)

Prepared: 12/04/18 Analyzed: 12/05/18

Antimony	62.5	4.9	mg/Kg wet	75.5		82.8	3.8-196			
Arsenic	161	4.9	mg/Kg wet	161		99.7	83.2-116.8			
Barium	284	4.9	mg/Kg wet	260		109	82.7-117.3			
Beryllium	104	0.49	mg/Kg wet	97.6		107	83.4-116.8			
Cadmium	214	0.49	mg/Kg wet	211		102	83.4-116.6			
Chromium	142	0.98	mg/Kg wet	136		104	82.4-117.6			
Lead	110	1.5	mg/Kg wet	111		98.8	83-117.1			
Nickel	97.7	0.98	mg/Kg wet	91.9		106	82.9-117.5			
Selenium	187	9.8	mg/Kg wet	191		97.7	79.6-120.9			
Silver	47.3	0.98	mg/Kg wet	43.3		109	79.9-119.9			
Thallium	166	4.9	mg/Kg wet	156		107	81.4-119.2			
Vanadium	54.4	2.0	mg/Kg wet	56.7		95.9	79-121.2			
Zinc	205	2.0	mg/Kg wet	199		103	81.4-119.1			

LCS Dup (B218441-BSD1)

Prepared: 12/04/18 Analyzed: 12/05/18

Antimony	63.1	5.0	mg/Kg wet	75.5		83.6	3.8-196	1.03	30	
Arsenic	157	5.0	mg/Kg wet	161		97.5	83.2-116.8	2.21	30	
Barium	275	5.0	mg/Kg wet	260		106	82.7-117.3	3.49	30	
Beryllium	102	0.50	mg/Kg wet	97.6		105	83.4-116.8	2.04	30	
Cadmium	210	0.50	mg/Kg wet	211		99.8	83.4-116.6	1.74	30	
Chromium	138	0.99	mg/Kg wet	136		102	82.4-117.6	2.52	30	
Lead	109	1.5	mg/Kg wet	111		98.3	83-117.1	0.504	30	
Nickel	95.4	0.99	mg/Kg wet	91.9		104	82.9-117.5	2.38	30	
Selenium	183	9.9	mg/Kg wet	191		95.9	79.6-120.9	1.90	30	
Silver	46.9	0.99	mg/Kg wet	43.3		108	79.9-119.9	0.740	30	
Thallium	163	5.0	mg/Kg wet	156		105	81.4-119.2	1.75	30	
Vanadium	52.8	2.0	mg/Kg wet	56.7		93.2	79-121.2	2.82	30	
Zinc	201	2.0	mg/Kg wet	199		101	81.4-119.1	2.10	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218441 - SW-846 3050B										
MRL Check (B218441-MRL1)					Prepared: 12/04/18 Analyzed: 12/05/18					
Lead	0.529	0.49	mg/Kg wet	0.493		107	80-120			
Batch B218536 - SW-846 7471										
Blank (B218536-BLK1)					Prepared: 12/05/18 Analyzed: 12/06/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B218536-BS1)					Prepared: 12/05/18 Analyzed: 12/06/18					
Mercury	14.3	1.9	mg/Kg wet	11.5		125	71.6-127.8			
LCS Dup (B218536-BSD1)					Prepared: 12/05/18 Analyzed: 12/06/18					
Mercury	11.8	1.9	mg/Kg wet	11.5		103	71.6-127.8	19.1	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218066 - SW-846 9045C										
LCS (B218066-BS1)				Prepared & Analyzed: 11/28/18						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B218066-DUP1)				Source: 18K1190-04		Prepared & Analyzed: 11/28/18				
pH	5.4		pH Units		5.3			1.48	5	H-03
Batch B218203 - SM21-22 2510B Modified										
Blank (B218203-BLK1)				Prepared & Analyzed: 11/30/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B218203-BS1)				Prepared & Analyzed: 11/30/18						
Specific conductance	200		µmhos/cm	192		102	90-110			
Duplicate (B218203-DUP2)				Source: 18K1190-01		Prepared & Analyzed: 11/30/18				
Specific conductance	2.0	2.0	µmhos/cm		2.0			2.51	21	
Batch B218238 - SW-846 9014										
Blank (B218238-BLK1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B218238-BS1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Reactive Cyanide	11	0.40	mg/Kg	10.0		106	83.6-111			
Batch B218248 - SW-846 9030A										
Blank (B218248-BLK1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B218248-BS1)				Prepared: 11/30/18 Analyzed: 12/03/18						
Reactive Sulfide	12	2.0	mg/Kg	14.8		83.8	54.9-121			
Batch B218263 - SW-846 9014										
Blank (B218263-BLK1)				Prepared: 12/01/18 Analyzed: 12/03/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B218263-BS1)				Prepared: 12/01/18 Analyzed: 12/03/18						
Reactive Cyanide	11	0.40	mg/Kg	10.0		106	83.6-111			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218264 - SW-846 9030A										
Blank (B218264-BLK1)					Prepared: 12/01/18 Analyzed: 12/03/18					
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B218264-BS1)					Prepared: 12/01/18 Analyzed: 12/03/18					
Reactive Sulfide	12	2.0	mg/Kg	14.8		83.8	54.9-121			
Batch B218583 - % Solids										
Duplicate (B218583-DUP3)		Source: 18K1190-01			Prepared: 12/05/18 Analyzed: 12/06/18					
% Solids	78.8		% Wt		77.3			1.85	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB42

SW-846 8081B

Lab Sample ID: 18K1190-04 Date(s) Analyzed: 12/04/2018 12/04/2018

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.811	-0.030	0.030	0.33	
	2	7.800	-0.030	0.030	0.34	3.0
Aroclor-1254	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.23	14.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.18	0.0

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
 - ND Not Detected
 - RL Reporting Limit is at the level of quantitation (LOQ)
 - DL Detection Limit is the lower limit of detection determined by the MDL study
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- DL-03 Elevated reporting limit due to matrix.
 - H-03 Sample received after recommended holding time was exceeded.
 - L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - O-32 A dilution was performed as part of the standard analytical procedure.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
 - V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8151A in Soil</i>	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Soil	
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

http://www.contestlabs.com

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East Longmeadow, MA 01028

Page 1 of 1

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



Requested Turnaround Time: 7-Day 10-Day

Due Date: _____

Push/Approval Required: 1-Day 3-Day 2-Day 4-Day

Data Delivery: PDF EXCEL

Other: Limit Checker

CLP Like Data Pkg Required:

Email To: pcornelio@vhb.com; tylerphilips@vhb.com; thecornelio@vhb.com

Fax To #: _____

Company Name: VHB

Address: 101 Walnut Street, Watertown, MA

Phone: 617-607-1841

Project Name: Eversource Transmission Project

Project Location: Sudbury, Massachusetts

Project Number: 12970.03

Project Manager: Paige Cornell

Con-Test Quote Name/Number: _____

Invoice Recipient: _____

Sampled By: T.J.P

Con-Test Work Order#	Client Sample ID / Description	Date	Time	Composite	Grab	Matrix Code	Conc Code
1	SB48	11/15/18	9:00	X	X	S	A/V
2	SB40	11/15/18	10:30	X	X	S	A/V
3	SB41	11/15/18	11:30	X	X	S	A/V
4	SB42	11/15/18	14:00	X	X	S	A/V

ANALYSIS REQUESTED		1	2	3
Conductivity		A	A	A
Ignitability, pH, Reactivity		A	A	A
Pesticide/Herbicide		A	A	A
SVOCs, PCBs, TPH		A	A	A
VOCs		A	A	A
MCP 14 Metals		A	A	A

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define) _DI
 H2O

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Thanks!

ICLP 20x Rule

Vials frozen on day of generation by 16:00

Received by: (signature) *[Signature]* Date/Time: 11-27-18 17:00

Retinquished by: (signature) *[Signature]* Date/Time: 11-28-18 15:45

Retinquished by: (signature) *[Signature]* Date/Time: 11-28-18 15:45

Retinquished by: (signature) *[Signature]* Date/Time: 11-28-18 17:30

Retinquished by: (signature) *[Signature]* Date/Time: 11-28-18 17:30

Special Requirements

MA MCP Required:

MCP Certification Form Required:

CT RCP Required:

RCP Certification Form Required:

MA State DW Required:

PWSID #: _____



Project Entity

Government Municipality MWRA Other

Federal 21 J School Chromatogram

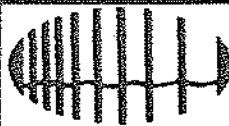
City Brownfield MBTA AIHA-LAP, LLC

PCB ONLY

Soxhlet

Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By LR Date 11-28-18 Time 1730

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 5.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? * T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? T

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? NA

Who was notified? _____

Who was notified? _____

Who was notified? Luke

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	<u>4</u>	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-	<u>8</u>	Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: DI @ 11-28-18 1730
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

* Containers for sample 3840 labeled 3841, Identified by container date/time

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 18K1190
Project Location: Sudbury, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
18K1190-01 thru 18K1190-04

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM III B (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A (X)	6020 Metals CAM III D ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C (X)	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Lisa Worthington Position: Project Manager
Printed Name: Lisa A. Worthington Date: 12/06/18

December 17, 2018

Paige Cornell
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Sudbury, MA
Client Job Number:
Project Number: 12970.03
Laboratory Work Order Number: 18L0240

Enclosed are results of analyses for samples received by the laboratory on December 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" and "M".

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paige Cornell

REPORT DATE: 12/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18L0240

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Sudbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW33	18L0240-01	Ground Water		SW-846 6020B SW-846 7470A SW-846 8082A SW-846 8100 Modified SW-846 8260C	
MW35	18L0240-02	Ground Water		SW-846 6020B SW-846 7470A SW-846 8082A SW-846 8100 Modified SW-846 8260C	
MW42	18L0240-03	Ground Water		SW-846 6020B SW-846 7470A SW-846 8082A SW-846 8100 Modified SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only a select list of metals was requested and reported.

SW-846 8082A**Qualifications:****H-01**

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

18L0240-01[MW33]

SW-846 8260C**Qualifications:****RL-07**

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

18L0240-01[MW33], 18L0240-02[MW35], 18L0240-03[MW42]

Methylene Chloride

18L0240-01[MW33], 18L0240-02[MW35], 18L0240-03[MW42]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Acetone**

18L0240-01[MW33], 18L0240-02[MW35], 18L0240-03[MW42], B219108-BLK1, B219108-BS1, B219108-BSD1, S030354-CCV1

Dichlorodifluoromethane (Freon 1)

18L0240-01[MW33], 18L0240-02[MW35], 18L0240-03[MW42], B219108-BLK1, B219108-BS1, B219108-BSD1, S030354-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18L0240-01[MW33], 18L0240-02[MW35], 18L0240-03[MW42], B219108-BLK1, B219108-BS1, B219108-BSD1, S030354-CCV1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,1,1,2-Tetrachloroethane**

B219108-BS1, B219108-BSD1, S030354-CCV1

Bromomethane

B219108-BS1, B219108-BSD1, S030354-CCV1

Hexachlorobutadiene

B219108-BS1, B219108-BSD1, S030354-CCV1

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SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopyscinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW33

Sampled: 12/5/2018 09:08

Sample ID: 18L0240-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:04	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW33

Sampled: 12/5/2018 09:08

Sample ID: 18L0240-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	84.8	70-130	12/14/18 19:04
Toluene-d8	96.5	70-130	12/14/18 19:04
4-Bromofluorobenzene	97.6	70-130	12/14/18 19:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW33

Sampled: 12/5/2018 09:08

Sample ID: 18L0240-01

Sample Matrix: Ground Water

Sample Flags: H-01

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	12/13/18	12/14/18 21:23	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.6	30-150					12/14/18 21:23	
Decachlorobiphenyl [2]		72.3	30-150					12/14/18 21:23	
Tetrachloro-m-xylene [1]		81.5	30-150					12/14/18 21:23	
Tetrachloro-m-xylene [2]		87.5	30-150					12/14/18 21:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW33

Sampled: 12/5/2018 09:08

Sample ID: 18L0240-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	0.19	mg/L	1		SW-846 8100 Modified	12/11/18	12/14/18 18:19	KLB
Surrogates		% Recovery			Recovery Limits				Flag/Qual
2-Fluorobiphenyl		61.8			40-140			12/14/18 18:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Sampled: 12/5/2018 09:08

Field Sample #: MW33

Sample ID: 18L0240-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Barium	16	10	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Chromium	ND	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Lead	ND	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/11/18	12/12/18 13:06	AJL
Selenium	ND	5.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 9:58	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW35

Sampled: 12/5/2018 10:40

Sample ID: 18L0240-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW35

Sampled: 12/5/2018 10:40

Sample ID: 18L0240-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	85.8	70-130	12/14/18 19:30
Toluene-d8	95.1	70-130	12/14/18 19:30
4-Bromofluorobenzene	97.6	70-130	12/14/18 19:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW35

Sampled: 12/5/2018 10:40

Sample ID: 18L0240-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.1	30-150					12/14/18 13:27	
Decachlorobiphenyl [2]		73.4	30-150					12/14/18 13:27	
Tetrachloro-m-xylene [1]		91.3	30-150					12/14/18 13:27	
Tetrachloro-m-xylene [2]		92.8	30-150					12/14/18 13:27	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW35

Sampled: 12/5/2018 10:40

Sample ID: 18L0240-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	0.22	mg/L	1		SW-846 8100 Modified	12/11/18	12/14/18 18:36	KLB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2-Fluorobiphenyl	69.8	40-140				12/14/18 18:36			

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW35

Sampled: 12/5/2018 10:40

Sample ID: 18L0240-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.40	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Barium	18	10	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Chromium	1.0	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Lead	ND	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/11/18	12/12/18 13:12	AJL
Selenium	ND	5.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:02	MJH

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW42

Sampled: 12/5/2018 12:32

Sample ID: 18L0240-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW42

Sampled: 12/5/2018 12:32

Sample ID: 18L0240-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	12/13/18	12/14/18 19:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	12/13/18	12/14/18 19:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.8	70-130	12/14/18 19:57
Toluene-d8	95.7	70-130	12/14/18 19:57
4-Bromofluorobenzene	96.5	70-130	12/14/18 19:57

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW42

Sampled: 12/5/2018 12:32

Sample ID: 18L0240-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	12/11/18	12/14/18 13:45	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.7	30-150					12/14/18 13:45	
Decachlorobiphenyl [2]		76.3	30-150					12/14/18 13:45	
Tetrachloro-m-xylene [1]		90.4	30-150					12/14/18 13:45	
Tetrachloro-m-xylene [2]		93.1	30-150					12/14/18 13:45	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Field Sample #: MW42

Sampled: 12/5/2018 12:32

Sample ID: 18L0240-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	0.19	mg/L	1		SW-846 8100 Modified	12/11/18	12/14/18 18:54	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	67.9		40-140					12/14/18 18:54	

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Project Location: Sudbury, MA

Sample Description:

Work Order: 18L0240

Date Received: 12/6/2018

Sampled: 12/5/2018 12:32

Field Sample #: MW42

Sample ID: 18L0240-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Arsenic	4.4	0.40	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Barium	87	10	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Cadmium	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Chromium	1.7	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Lead	1.0	1.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/11/18	12/12/18 13:13	AJL
Selenium	ND	5.0	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH
Silver	ND	0.50	µg/L	1		SW-846 6020B	12/11/18	12/12/18 10:05	MJH

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-01 [MW33]	B218945	50.0	50.0	12/11/18
18L0240-02 [MW35]	B218945	50.0	50.0	12/11/18
18L0240-03 [MW42]	B218945	50.0	50.0	12/11/18

Prep Method: SW-846 7470A Dissolved-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-01 [MW33]	B218973	6.00	6.00	12/11/18
18L0240-02 [MW35]	B218973	6.00	6.00	12/11/18
18L0240-03 [MW42]	B218973	6.00	6.00	12/11/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-02 [MW35]	B218987	1000	10.0	12/11/18
18L0240-03 [MW42]	B218987	1000	10.0	12/11/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-01 [MW33]	B219185	1030	10.0	12/13/18

Prep Method: SW-846 3510C-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-01 [MW33]	B218938	1040	1.00	12/11/18
18L0240-02 [MW35]	B218938	910	1.00	12/11/18
18L0240-03 [MW42]	B218938	1040	1.00	12/11/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18L0240-01 [MW33]	B219108	5	5.00	12/13/18
18L0240-02 [MW35]	B219108	5	5.00	12/13/18
18L0240-03 [MW42]	B219108	5	5.00	12/13/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B219108 - SW-846 5030B

Blank (B219108-BLK1)

Prepared: 12/13/18 Analyzed: 12/14/18

Acetone	ND	10	µg/L							V-05
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B219108 - SW-846 5030B

Blank (B219108-BLK1)

Prepared: 12/13/18 Analyzed: 12/14/18

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	21.2		µg/L	25.0		85.0	70-130			
Surrogate: Toluene-d8	24.0		µg/L	25.0		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.7	70-130			

LCS (B219108-BS1)

Prepared: 12/13/18 Analyzed: 12/14/18

Acetone	81.0	10	µg/L	100		81.0	40-160			V-05 †
tert-Amyl Methyl Ether (TAME)	9.04	0.50	µg/L	10.0		90.4	70-130			
Benzene	9.28	1.0	µg/L	10.0		92.8	70-130			
Bromobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromochloromethane	9.45	1.0	µg/L	10.0		94.5	70-130			
Bromodichloromethane	9.46	1.0	µg/L	10.0		94.6	70-130			
Bromoform	11.0	1.0	µg/L	10.0		110	70-130			
Bromomethane	9.78	2.0	µg/L	10.0		97.8	40-160			V-20 †
2-Butanone (MEK)	79.5	10	µg/L	100		79.5	40-160			†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.42	0.50	µg/L	10.0		84.2	70-130			
Carbon Disulfide	9.70	5.0	µg/L	10.0		97.0	70-130			
Carbon Tetrachloride	8.97	1.0	µg/L	10.0		89.7	70-130			
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101	70-130			
Chloroethane	8.30	2.0	µg/L	10.0		83.0	70-130			
Chloroform	9.38	2.0	µg/L	10.0		93.8	70-130			
Chloromethane	7.45	2.0	µg/L	10.0		74.5	40-160			†
2-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.21	2.0	µg/L	10.0		92.1	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
Dibromomethane	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B219108 - SW-846 5030B										
LCS (B219108-BS1)										
					Prepared: 12/13/18 Analyzed: 12/14/18					
Dichlorodifluoromethane (Freon 12)	7.21	2.0	µg/L	10.0		72.1	40-160			V-05 †
1,1-Dichloroethane	9.11	1.0	µg/L	10.0		91.1	70-130			
1,2-Dichloroethane	9.07	1.0	µg/L	10.0		90.7	70-130			
1,1-Dichloroethylene	8.53	1.0	µg/L	10.0		85.3	70-130			
cis-1,2-Dichloroethylene	8.71	1.0	µg/L	10.0		87.1	70-130			
trans-1,2-Dichloroethylene	8.64	1.0	µg/L	10.0		86.4	70-130			
1,2-Dichloropropane	9.82	1.0	µg/L	10.0		98.2	70-130			
1,3-Dichloropropane	9.18	0.50	µg/L	10.0		91.8	70-130			
2,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130			
1,1-Dichloropropene	8.68	0.50	µg/L	10.0		86.8	70-130			
cis-1,3-Dichloropropene	9.47	0.40	µg/L	10.0		94.7	70-130			
trans-1,3-Dichloropropene	9.84	0.40	µg/L	10.0		98.4	70-130			
Diethyl Ether	9.24	2.0	µg/L	10.0		92.4	70-130			
Diisopropyl Ether (DIPE)	8.39	0.50	µg/L	10.0		83.9	70-130			
1,4-Dioxane	107	50	µg/L	100		107	40-160			V-16 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	12.6	0.60	µg/L	10.0		126	70-130			V-20
2-Hexanone (MBK)	85.3	10	µg/L	100		85.3	40-160			†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0		116	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	8.93	1.0	µg/L	10.0		89.3	70-130			
Methylene Chloride	7.63	5.0	µg/L	10.0		76.3	70-130			
4-Methyl-2-pentanone (MIBK)	86.2	10	µg/L	100		86.2	40-160			†
Naphthalene	10.0	2.0	µg/L	10.0		100	70-130			
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2-Tetrachloroethane	12.0	1.0	µg/L	10.0		120	70-130			V-20
1,1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117	70-130			
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
Tetrahydrofuran	8.46	2.0	µg/L	10.0		84.6	70-130			
Toluene	10.0	1.0	µg/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	10.8	2.0	µg/L	10.0		108	70-130			
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1-Trichloroethane	9.55	1.0	µg/L	10.0		95.5	70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Trichlorofluoromethane (Freon 11)	8.46	2.0	µg/L	10.0		84.6	70-130			
1,2,3-Trichloropropane	9.91	2.0	µg/L	10.0		99.1	70-130			
1,2,4-Trimethylbenzene	9.65	1.0	µg/L	10.0		96.5	70-130			
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Vinyl Chloride	7.68	2.0	µg/L	10.0		76.8	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	21.0		µg/L	25.0		84.2	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.5		µg/L	25.0		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B219108 - SW-846 5030B										
LCS Dup (B219108-BSD1)										
					Prepared: 12/13/18 Analyzed: 12/14/18					
Acetone	74.4	10	µg/L	100		74.4	40-160	8.58	20	V-05 †
tert-Amyl Methyl Ether (TAME)	8.97	0.50	µg/L	10.0		89.7	70-130	0.777	20	
Benzene	8.62	1.0	µg/L	10.0		86.2	70-130	7.37	20	
Bromobenzene	10.0	1.0	µg/L	10.0		100	70-130	6.36	20	
Bromochloromethane	9.03	1.0	µg/L	10.0		90.3	70-130	4.55	20	
Bromodichloromethane	9.22	1.0	µg/L	10.0		92.2	70-130	2.57	20	
Bromoform	10.7	1.0	µg/L	10.0		107	70-130	2.12	20	
Bromomethane	11.4	2.0	µg/L	10.0		114	40-160	15.3	20	V-20 †
2-Butanone (MEK)	73.9	10	µg/L	100		73.9	40-160	7.32	20	†
n-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130	8.79	20	
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	7.26	20	
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	3.05	20	
tert-Butyl Ethyl Ether (TBEE)	8.13	0.50	µg/L	10.0		81.3	70-130	3.50	20	
Carbon Disulfide	8.57	5.0	µg/L	10.0		85.7	70-130	12.4	20	
Carbon Tetrachloride	8.47	1.0	µg/L	10.0		84.7	70-130	5.73	20	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	2.66	20	
Chlorodibromomethane	9.86	0.50	µg/L	10.0		98.6	70-130	2.11	20	
Chloroethane	7.87	2.0	µg/L	10.0		78.7	70-130	5.32	20	
Chloroform	8.84	2.0	µg/L	10.0		88.4	70-130	5.93	20	
Chloromethane	7.08	2.0	µg/L	10.0		70.8	40-160	5.09	20	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	6.40	20	
4-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	4.91	20	
1,2-Dibromo-3-chloropropane (DBCP)	8.70	2.0	µg/L	10.0		87.0	70-130	5.70	20	
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130	2.92	20	
Dibromomethane	9.88	1.0	µg/L	10.0		98.8	70-130	1.31	20	
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	6.55	20	
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	3.86	20	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.64	20	
Dichlorodifluoromethane (Freon 12)	6.51	2.0	µg/L	10.0		65.1	40-160	10.2	20	L-14, V-05 †
1,1-Dichloroethane	8.70	1.0	µg/L	10.0		87.0	70-130	4.60	20	
1,2-Dichloroethane	8.84	1.0	µg/L	10.0		88.4	70-130	2.57	20	
1,1-Dichloroethylene	8.15	1.0	µg/L	10.0		81.5	70-130	4.56	20	
cis-1,2-Dichloroethylene	8.20	1.0	µg/L	10.0		82.0	70-130	6.03	20	
trans-1,2-Dichloroethylene	8.47	1.0	µg/L	10.0		84.7	70-130	1.99	20	
1,2-Dichloropropane	9.26	1.0	µg/L	10.0		92.6	70-130	5.87	20	
1,3-Dichloropropane	9.10	0.50	µg/L	10.0		91.0	70-130	0.875	20	
2,2-Dichloropropane	9.42	1.0	µg/L	10.0		94.2	70-130	10.6	20	
1,1-Dichloropropene	8.21	0.50	µg/L	10.0		82.1	70-130	5.57	20	
cis-1,3-Dichloropropene	9.32	0.40	µg/L	10.0		93.2	70-130	1.60	20	
trans-1,3-Dichloropropene	9.72	0.40	µg/L	10.0		97.2	70-130	1.23	20	
Diethyl Ether	8.68	2.0	µg/L	10.0		86.8	70-130	6.25	20	
Diisopropyl Ether (DIPE)	8.18	0.50	µg/L	10.0		81.8	70-130	2.53	20	
1,4-Dioxane	92.1	50	µg/L	100		92.1	40-160	15.1	20	V-16 †
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	6.13	20	
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116	70-130	8.66	20	V-20
2-Hexanone (MBK)	80.1	10	µg/L	100		80.1	40-160	6.36	20	†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109	70-130	6.24	20	
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.0		101	70-130	6.23	20	
Methyl tert-Butyl Ether (MTBE)	9.07	1.0	µg/L	10.0		90.7	70-130	1.56	20	
Methylene Chloride	7.22	5.0	µg/L	10.0		72.2	70-130	5.52	20	
4-Methyl-2-pentanone (MIBK)	82.2	10	µg/L	100		82.2	40-160	4.70	20	†
Naphthalene	9.55	2.0	µg/L	10.0		95.5	70-130	4.80	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B219108 - SW-846 5030B										
LCS Dup (B219108-BSD1)										
					Prepared: 12/13/18 Analyzed: 12/14/18					
n-Propylbenzene	9.89	1.0	µg/L	10.0		98.9	70-130	6.84	20	
Styrene	10.5	1.0	µg/L	10.0		105	70-130	5.30	20	
1,1,1,2-Tetrachloroethane	11.5	1.0	µg/L	10.0		115	70-130	4.60	20	V-20
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111	70-130	4.73	20	
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130	4.99	20	
Tetrahydrofuran	8.20	2.0	µg/L	10.0		82.0	70-130	3.12	20	
Toluene	9.46	1.0	µg/L	10.0		94.6	70-130	6.05	20	
1,2,3-Trichlorobenzene	9.86	2.0	µg/L	10.0		98.6	70-130	9.10	20	
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.55	20	
1,1,1-Trichloroethane	8.76	1.0	µg/L	10.0		87.6	70-130	8.63	20	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	4.09	20	
Trichloroethylene	9.56	1.0	µg/L	10.0		95.6	70-130	6.58	20	
Trichlorofluoromethane (Freon 11)	7.89	2.0	µg/L	10.0		78.9	70-130	6.97	20	
1,2,3-Trichloropropane	9.00	2.0	µg/L	10.0		90.0	70-130	9.62	20	
1,2,4-Trimethylbenzene	9.16	1.0	µg/L	10.0		91.6	70-130	5.21	20	
1,3,5-Trimethylbenzene	9.92	1.0	µg/L	10.0		99.2	70-130	7.75	20	
Vinyl Chloride	7.30	2.0	µg/L	10.0		73.0	70-130	5.07	20	
m+p Xylene	20.6	2.0	µg/L	20.0		103	70-130	4.69	20	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	20.9		µg/L	25.0		83.8	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218987 - SW-846 3510C										
Blank (B218987-BLK1)										
Prepared: 12/11/18 Analyzed: 12/14/18										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.79		µg/L	2.00		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.93		µg/L	2.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.51		µg/L	2.00		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.60		µg/L	2.00		80.0	30-150			
LCS (B218987-BS1)										
Prepared: 12/11/18 Analyzed: 12/14/18										
Aroclor-1016	0.38	0.20	µg/L	0.500		75.3	40-140			
Aroclor-1016 [2C]	0.41	0.20	µg/L	0.500		82.1	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.8	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.7	40-140			
Surrogate: Decachlorobiphenyl	1.62		µg/L	2.00		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.44		µg/L	2.00		72.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		76.1	30-150			
LCS Dup (B218987-BSD1)										
Prepared: 12/11/18 Analyzed: 12/14/18										
Aroclor-1016	0.40	0.20	µg/L	0.500		80.8	40-140	7.05	20	
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		89.4	40-140	8.55	20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.6	40-140	7.96	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	8.94	20	
Surrogate: Decachlorobiphenyl	1.82		µg/L	2.00		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.98		µg/L	2.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.45		µg/L	2.00		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.54		µg/L	2.00		76.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B219185 - SW-846 3510C										
Blank (B219185-BLK1)										
Prepared: 12/13/18 Analyzed: 12/14/18										
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Aroclor-1262	ND	0.040	µg/L							
Aroclor-1262 [2C]	ND	0.040	µg/L							
Aroclor-1268	ND	0.040	µg/L							
Aroclor-1268 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	1.88		µg/L	2.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.55		µg/L	2.00		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.64		µg/L	2.00		82.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.47		µg/L	2.00		73.4	30-150			
LCS (B219185-BS1)										
Prepared: 12/13/18 Analyzed: 12/14/18										
Aroclor-1016	0.47	0.20	µg/L	0.500		94.4	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.4	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.2	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.8	40-140			
Surrogate: Decachlorobiphenyl	1.89		µg/L	2.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.02		µg/L	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	1.67		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.82		µg/L	2.00		90.8	30-150			
LCS Dup (B219185-BSD1)										
Prepared: 12/13/18 Analyzed: 12/14/18										
Aroclor-1016	0.44	0.20	µg/L	0.500		88.1	40-140	6.85	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140	2.68	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		90.1	40-140	3.35	20	
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		98.7	40-140	1.98	20	
Surrogate: Decachlorobiphenyl	1.84		µg/L	2.00		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.96		µg/L	2.00		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.65		µg/L	2.00		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.83		µg/L	2.00		91.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B218938 - SW-846 3510C										
Blank (B218938-BLK1)										
					Prepared: 12/11/18 Analyzed: 12/12/18					
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	0.0758		mg/L	0.100		75.8	40-140			
LCS (B218938-BS1)										
					Prepared: 12/11/18 Analyzed: 12/12/18					
TPH (C9-C36)	0.808	0.20	mg/L	1.00		80.8	40-140			
Surrogate: 2-Fluorobiphenyl	0.0683		mg/L	0.100		68.3	40-140			
LCS Dup (B218938-BSD1)										
					Prepared: 12/11/18 Analyzed: 12/12/18					
TPH (C9-C36)	0.936	0.20	mg/L	1.00		93.6	40-140	14.7	30	
Surrogate: 2-Fluorobiphenyl	0.0753		mg/L	0.100		75.3	40-140			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B218945 - SW-846 3005A Dissolved

Blank (B218945-BLK1)

Prepared: 12/11/18 Analyzed: 12/12/18

Arsenic	ND	0.40	µg/L							
Barium	ND	10	µg/L							
Cadmium	ND	0.50	µg/L							
Chromium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							

LCS (B218945-BS1)

Prepared: 12/11/18 Analyzed: 12/12/18

Arsenic	499	4.0	µg/L	500		99.8	80-120			
Barium	498	100	µg/L	500		99.5	80-120			
Cadmium	505	5.0	µg/L	500		101	80-120			
Chromium	507	10	µg/L	500		101	80-120			
Lead	504	10	µg/L	500		101	80-120			
Selenium	494	50	µg/L	500		98.9	80-120			
Silver	491	5.0	µg/L	500		98.2	80-120			

LCS Dup (B218945-BSD1)

Prepared: 12/11/18 Analyzed: 12/12/18

Arsenic	498	4.0	µg/L	500		99.5	80-120	0.317	20	
Barium	498	100	µg/L	500		99.7	80-120	0.148	20	
Cadmium	501	5.0	µg/L	500		100	80-120	0.859	20	
Chromium	506	10	µg/L	500		101	80-120	0.198	20	
Lead	501	10	µg/L	500		100	80-120	0.536	20	
Selenium	502	50	µg/L	500		100	80-120	1.60	20	
Silver	493	5.0	µg/L	500		98.7	80-120	0.454	20	

Batch B218973 - SW-846 7470A Dissolved

Blank (B218973-BLK1)

Prepared: 12/11/18 Analyzed: 12/12/18

Mercury	ND	0.00010	mg/L							
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LCS (B218973-BS1)

Prepared: 12/11/18 Analyzed: 12/12/18

Mercury	0.00192	0.00010	mg/L	0.00200		95.9	80-120			
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LCS Dup (B218973-BSD1)

Prepared: 12/11/18 Analyzed: 12/12/18

Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120	2.43	20	
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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B218987-BS1 Date(s) Analyzed: 12/14/2018 12/14/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.41	7.6
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.46	11.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B218987-BSD1 Date(s) Analyzed: 12/14/2018 12/14/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.40	
	2	0.000	0.000	0.000	0.45	11.8
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.50	12.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B219185-BS1 Date(s) Analyzed: 12/14/2018 12/14/2018
 Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.50	6.2
Aroclor-1260	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.48	2.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B219185-BSD1 Date(s) Analyzed: 12/14/2018 12/14/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.48	8.7
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.49	8.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020B in Water	
Arsenic	CT,NH,NY,NC,ME,VA
Barium	MA,NY,CT,NC,NH,ME,VA
Cadmium	CT,NH,NY,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NC,NH,NY,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Address: 101 Walnut St, Waterbury, MA
 Phone: 607-607-1841
 Project Location: Essex St, Waterbury, MA
 Project Number: 12910.03
 Project Manager: Paige Carney
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: PEC

7-Day 10-Day
 Due Date:
 1-Day 3-Day
 2-Day 4-Day
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: Flawell@schools.com
 Fax To #: 908

Matrix Code	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1 MW33	12/18 9:08			GW	U
2 MW35	10:40				
3 MW42	12:32				

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1 MW33	12/18 9:08	9:08			GW	U
2 MW35	10:40	10:40				
3 MW42	12:32	12:32				

Analysis Requested	PCBs	PCBs & Metals	TRH	VOCs
1 MW33	X	X	X	X
2 MW35	X	X	X	X
3 MW42	X	X	X	X

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

ANALYSIS REQUESTED

PCBs
 PCBs & Metals
 TRH
 VOCs

MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 MCP Certifications Form Required
 MA State SWP Required
 PWSID #

con-test ANALYTICAL LABORATORY
 www.contestlabs.com

NEIAC and AHA-LAP LLC Accredited

Other: Chromatogram AHA-LAP, LLC

Project Entity:
 Government Municipality MWRA WRTA
 Federal 21 J School MBTA
 City Brownfield

Relinquished by: (signature) Date/Time: 12/6/18
 Received by: (signature) Date/Time: 12/6/18
 Relinquished by: (signature) Date/Time: 12/6/18
 Received by: (signature) Date/Time: 12-6-18
 Relinquished by: (signature) Date/Time:
 Received by: (signature) Date/Time:

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB
 Received By LR Date 12-6-18 Time 1425
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.1
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F T On COC? F
 Do all samples have the proper pH? Acid Top 2 Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.	11	1 Liter Plastic	16 oz Amb.
HCL-	17	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

received trip blanks, not on COC

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 18L0240
Project Location: Sudbury, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
18L0240-01 thru 18L0240-04

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A ()	6020 Metals CAM III D (X)	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Tod Kopyscinski

Position: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 12/17/18



CERTIFICATE OF ANALYSIS

Paige Cornell
 Vanasse Hangen Brustlin, Inc
 101 Walnut Street
 Watertown, MA 02272

RE: Eversource Transmission Project (12970.03)
ESS Laboratory Work Order Number: 1810642

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 1:56 pm, Nov 01, 2018

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

SAMPLE RECEIPT

The following samples were received on October 23, 2018 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Low Level VOA vials were frozen by the Client on October 18, 2018 at 16:00.

Question I: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.

Lab Number	Sample Name	Matrix	Analysis
1810642-01	MP36	Soil	1010, 6010C, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A, 8100M, 8151A, 8260B Low, 8270D, 9045, 9050A



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

C8J0541-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

Bromomethane (25% @ 20%)

C8J0541-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)

1,4-Dioxane (21% @ 20%), Bromoform (27% @ 20%)

CJ82421-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)

Bromomethane (135% @ 70-130%)

CJ82421-BSD1 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)

Bromomethane (40% @ 20%)

8151A Chlorinated Herbicides

1810642-01 [Modified result](#)

MCPP

1810642-01 [Peaks found in the retention time window for MCPP did not confirm by GC/MS.](#)

8270D Semi-Volatile Organic Compounds

C8J0525-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (101% @ 80-120%), Pentachlorophenol (116% @ 80-120%)

C8J0525-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)

4-Chloroaniline (22% @ 20%)

C8J0525-CCV1 [Initial Calibration Verification recovery is above upper control limit \(ICV+\).](#)

4-Nitrophenol, Di-n-octylphthalate

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 04-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1810642-01**

Matrices: () Ground Water/Surface Water Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|--|---|---|--|---|------------------------------------|
| <input checked="" type="checkbox"/> 8260 VOC
CAM II A | <input checked="" type="checkbox"/> 7470/7471 Hg
CAM III B | () MassDEP VPH
(GC/PID/FID)
CAM IV A | <input checked="" type="checkbox"/> 8082 PCB
CAM V A | () 9014 Total
Cyanide/PAC
CAM VI A | () 6860 Perchlorate
CAM VIII B |
| <input checked="" type="checkbox"/> 8270 SVOC
CAM II B | () 7010 Metals
CAM III C | () MassDEP VPH
(GC/MS)
CAM IV C | <input checked="" type="checkbox"/> 8081 Pesticides
CAM V B | () 7196 Hex Cr
CAM VI B | () MassDEP APH
CAM IX A |
| <input checked="" type="checkbox"/> 6010 Metals
CAM III A | () 6020 Metals
CAM III D | <input checked="" type="checkbox"/> MassDEP EPH
CAM IV B | <input checked="" type="checkbox"/> 8151 Herbicides
CAM V C | () Explosives
CAM VIII A | () TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes No ()
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes No ()
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes No ()
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes No ()
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). Yes No ()
 b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes () No ()
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes No ()

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes No ()
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes () No *
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes () No *

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard
 Printed Name: Laurel Stoddard

Date: November 01, 2018
 Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project
 Client Sample ID: MP36
 Date Sampled: 10/18/18 14:00
 Percent Solids: 77

ESS Laboratory Work Order: 1810642
 ESS Laboratory Sample ID: 1810642-01
 Sample Matrix: Soil
 Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (5.25)		6010C		1	KJK	10/25/18 13:55	2.48	100	CJ82452
Arsenic	8.42 (2.62)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Barium	17.0 (2.62)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Beryllium	0.23 (0.12)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Cadmium	ND (0.52)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Chromium	11.0 (1.05)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Lead	8.08 (5.25)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Mercury	ND (0.028)		7471B		1	MJV	10/25/18 11:30	0.93	40	CJ82453
Nickel	7.21 (2.62)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Selenium	ND (5.25)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Silver	ND (0.52)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Thallium	ND (5.25)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Vanadium	10.2 (1.05)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452
Zinc	13.2 (2.62)		6010C		1	KJK	10/25/18 6:55	2.48	100	CJ82452



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 14.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1,1-Trichloroethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1,2,2-Tetrachloroethane	ND (0.0009)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1,2-Trichloroethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1-Dichloroethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1-Dichloroethene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,1-Dichloropropene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2,3-Trichlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2,3-Trichloropropane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2,4-Trichlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2,4-Trimethylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2-Dibromo-3-Chloropropane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2-Dibromoethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2-Dichlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2-Dichloroethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,2-Dichloropropane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,3,5-Trimethylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,3-Dichlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,3-Dichloropropane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,4-Dichlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
1,4-Dioxane	ND (0.0449)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
2,2-Dichloropropane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
2-Butanone	0.0266 (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
2-Chlorotoluene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
2-Hexanone	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
4-Chlorotoluene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
4-Isopropyltoluene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
4-Methyl-2-Pentanone	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Acetone	0.168 (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Benzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Bromobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Bromochloromethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 14.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromodichloromethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Bromoform	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Bromomethane	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Carbon Disulfide	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Carbon Tetrachloride	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Chlorobenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Chloroethane	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Chloroform	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Chloromethane	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
cis-1,2-Dichloroethene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
cis-1,3-Dichloropropene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Dibromochloromethane	ND (0.0009)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Dibromomethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Dichlorodifluoromethane	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Diethyl Ether	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Di-isopropyl ether	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Ethyl tertiary-butyl ether	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Ethylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Hexachlorobutadiene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Isopropylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Methyl tert-Butyl Ether	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Methylene Chloride	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Naphthalene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
n-Butylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
n-Propylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
sec-Butylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Styrene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
tert-Butylbenzene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Tertiary-amyl methyl ether	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Tetrachloroethene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Tetrahydrofuran	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Toluene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project
 Client Sample ID: MP36
 Date Sampled: 10/18/18 14:00
 Percent Solids: 77
 Initial Volume: 14.5
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 1810642
 ESS Laboratory Sample ID: 1810642-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
trans-1,2-Dichloroethene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
trans-1,3-Dichloropropene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Trichloroethene	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Trichlorofluoromethane	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Vinyl Chloride	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Xylene O	ND (0.0022)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Xylene P,M	ND (0.0045)		8260B Low		1	10/24/18 15:33	C8J0541	CJ82421
Xylenes (Total)	ND (0.0045)		8260B Low		1	10/24/18 15:33		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	127 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	92 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	113 %		70-130
<i>Surrogate: Toluene-d8</i>	103 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project
 Client Sample ID: MP36
 Date Sampled: 10/18/18 14:00
 Percent Solids: 77
 Initial Volume: 20.1
 Final Volume: 5
 Extraction Method: 3546

ESS Laboratory Work Order: 1810642
 ESS Laboratory Sample ID: 1810642-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 10/25/18 15:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
4,4'-DDE	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
4,4'-DDT	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Aldrin	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
alpha-BHC	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
alpha-Chlordane	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
beta-BHC	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Chlordane (Total)	ND (0.0259)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
delta-BHC	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Dieldrin	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Endosulfan I	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Endosulfan II	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Endosulfan Sulfate	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Endrin	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Endrin Ketone	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
gamma-BHC (Lindane)	ND (0.0019)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
gamma-Chlordane	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Heptachlor	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Heptachlor Epoxide	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Hexachlorobenzene	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517
Methoxychlor	ND (0.0032)		8081B		1	10/26/18 13:41	C8J0583	CJ82517

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	62 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	69 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	62 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	57 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 19.7
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: CAD
Prepared: 10/25/18 17:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1221	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1232	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1242	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1248	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1254	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1260	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1262	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512
Aroclor 1268	ND (0.07)		8082A		1	10/26/18 23:07		CJ82512

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	99 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	89 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project
 Client Sample ID: MP36
 Date Sampled: 10/18/18 14:00
 Percent Solids: 77
 Initial Volume: 20.9
 Final Volume: 1
 Extraction Method: 3546

ESS Laboratory Work Order: 1810642
 ESS Laboratory Sample ID: 1810642-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: SMR
 Prepared: 10/25/18 12:11

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	51.7 (12.5)		8100M		1	10/26/18 2:29	C8J0542	CJ82519
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		85 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 10.4
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 10/30/18 16:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.012)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
2,4,5-TP (Silvex)	ND (0.012)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
2,4-D	ND (0.059)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
2,4-DB	ND (0.059)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
Dalapon	ND (0.057)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
Dicamba	ND (0.012)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
Dichlorprop	ND (0.059)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
Dinoseb	ND (0.059)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
MCPA	ND (2.91)		8151A		1	11/01/18 3:02	C8J0692	CJ83033
MCPP	# ND (2.94)		8151A		1	11/01/18 3:02	C8J0692	CJ83033

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>94 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>101 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 10/24/18 11:10

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,2,4-Trichlorobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
1,2-Dichlorobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
1,3-Dichlorobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
1,4-Dichlorobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4,5-Trichlorophenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4,6-Trichlorophenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4-Dichlorophenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4-Dimethylphenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4-Dinitrophenol	ND (2.06)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,4-Dinitrotoluene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2,6-Dinitrotoluene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2-Chloronaphthalene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2-Chlorophenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2-Methylnaphthalene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2-Methylphenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
2-Nitrophenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
3,3'-Dichlorobenzidine	ND (0.824)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
3+4-Methylphenol	ND (0.824)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
4-Bromophenyl-phenylether	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
4-Chloroaniline	ND (0.824)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
4-Nitrophenol	ND (2.06)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Acenaphthene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Acenaphthylene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Acetophenone	ND (0.824)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Aniline	ND (2.06)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Anthracene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Azobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Benzo(a)anthracene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Benzo(a)pyrene	ND (0.206)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Benzo(b)fluoranthene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Benzo(g,h,i)perylene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Benzo(k)fluoranthene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 10/24/18 11:10

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
bis(2-Chloroethoxy)methane	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
bis(2-Chloroethyl)ether	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
bis(2-chloroisopropyl)Ether	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
bis(2-Ethylhexyl)phthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Butylbenzylphthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Chrysene	ND (0.206)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Dibenzo(a,h)Anthracene	ND (0.206)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Dibenzofuran	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Diethylphthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Dimethylphthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Di-n-butylphthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Di-n-octylphthalate	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Fluoranthene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Fluorene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Hexachlorobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Hexachlorobutadiene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Hexachloroethane	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Indeno(1,2,3-cd)Pyrene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Isophorone	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Naphthalene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Nitrobenzene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
N-Nitrosodimethylamine	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Pentachlorophenol	ND (2.06)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Phenanthrene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Phenol	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309
Pyrene	ND (0.411)		8270D		1	10/24/18 20:45	C8J0525	CJ82309

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	67 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	77 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	72 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 10/24/18 11:10

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Surrogate: 2-Fluorophenol		72 %		30-130				
Surrogate: Nitrobenzene-d5		73 %		30-130				
Surrogate: Phenol-d6		69 %		30-130				
Surrogate: p-Terphenyl-d14		66 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project
Client Sample ID: MP36
Date Sampled: 10/18/18 14:00
Percent Solids: 77

ESS Laboratory Work Order: 1810642
ESS Laboratory Sample ID: 1810642-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	318 (5)		9050A		1	LAB	10/24/18 16:08	umhos/cm	CJ82415
Corrosivity (pH)	5.64 (N/A)		9045		1	CCP	10/23/18 18:25	S.U.	CJ82323
Corrosivity (pH) Sample Temp	Soil pH measured in water at 20.1 °C.								
Flashpoint	> 200 (N/A)		1010		1	LAB	10/26/18 16:46	°F	CJ82628
Reactive Cyanide	ND (2.0)		7.3.3.2		1	JLK	10/26/18 22:47	mg/kg	CJ82627
Reactive Sulfide	ND (2.0)		7.3.4.1		1	JLK	10/26/18 22:47	mg/kg	CJ82627



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CJ82452 - 3050B

Blank

Antimony	ND	5.00	mg/kg wet
Arsenic	ND	2.50	mg/kg wet
Barium	ND	2.50	mg/kg wet
Beryllium	ND	0.11	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.00	mg/kg wet
Lead	ND	5.00	mg/kg wet
Nickel	ND	2.50	mg/kg wet
Selenium	ND	5.00	mg/kg wet
Silver	ND	0.50	mg/kg wet
Thallium	ND	5.00	mg/kg wet
Vanadium	ND	1.00	mg/kg wet
Zinc	ND	2.50	mg/kg wet

LCS

Antimony	87.1	18.9	mg/kg wet	79.40	110	0-218
Arsenic	62.2	9.43	mg/kg wet	59.00	105	85-115
Barium	222	9.43	mg/kg wet	233.0	95	83-116
Beryllium	55.0	0.42	mg/kg wet	59.50	93	84-116
Cadmium	85.3	1.89	mg/kg wet	98.70	86	84-116
Chromium	233	3.77	mg/kg wet	240.0	97	85-115
Lead	256	18.9	mg/kg wet	276.0	93	84-116
Nickel	276	9.43	mg/kg wet	298.0	93	84-116
Selenium	92.4	18.9	mg/kg wet	100.0	92	86-115
Silver	39.6	1.89	mg/kg wet	39.70	100	81-120
Thallium	123	18.9	mg/kg wet	128.0	96	80-120
Vanadium	196	3.77	mg/kg wet	201.0	98	88-111
Zinc	533	9.43	mg/kg wet	590.0	90	85-115

LCS Dup

Antimony	98.5	18.5	mg/kg wet	79.40	124	0-218	12	20
Arsenic	60.1	9.26	mg/kg wet	59.00	102	85-115	3	20
Barium	211	9.26	mg/kg wet	233.0	91	83-116	5	20
Beryllium	55.0	0.41	mg/kg wet	59.50	92	84-116	0.05	20
Cadmium	83.8	1.85	mg/kg wet	98.70	85	84-116	2	20
Chromium	229	3.70	mg/kg wet	240.0	96	85-115	2	20
Lead	257	18.5	mg/kg wet	276.0	93	84-116	0.5	20
Nickel	271	9.26	mg/kg wet	298.0	91	84-116	2	20
Selenium	91.5	18.5	mg/kg wet	100.0	91	86-115	1	20
Silver	38.4	1.85	mg/kg wet	39.70	97	81-120	3	20
Thallium	122	18.5	mg/kg wet	128.0	95	80-120	0.6	20
Vanadium	192	3.70	mg/kg wet	201.0	95	88-111	2	20
Zinc	527	9.26	mg/kg wet	590.0	89	85-115	1	20

Batch CJ82453 - 7471B

Blank



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CJ82453 - 7471B

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	12.4	1.71	mg/kg wet	12.00		103	80-120			
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LCS Dup

Mercury	12.4	1.65	mg/kg wet	12.00		103	80-120	0.01	20	
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0572		mg/kg wet	0.05000		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0532		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0499		mg/kg wet	0.05000		100	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,1,1-Trichloroethane	0.0582	0.0050	mg/kg wet	0.05000		116	70-130			
1,1,2,2-Tetrachloroethane	0.0526	0.0020	mg/kg wet	0.05000		105	70-130			
1,1,2-Trichloroethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

1,1-Dichloroethane	0.0587	0.0050	mg/kg wet	0.05000		117	70-130			
1,1-Dichloroethene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
1,1-Dichloropropene	0.0594	0.0050	mg/kg wet	0.05000		119	70-130			
1,2,3-Trichlorobenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,3-Trichloropropane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2,4-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trimethylbenzene	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
1,2-Dibromo-3-Chloropropane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromoethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dichloroethane	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
1,2-Dichloropropane	0.0577	0.0050	mg/kg wet	0.05000		115	70-130			
1,3,5-Trimethylbenzene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130			
1,3-Dichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,3-Dichloropropane	0.0561	0.0050	mg/kg wet	0.05000		112	70-130			
1,4-Dichlorobenzene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,4-Dioxane	0.861	0.100	mg/kg wet	1.000		86	70-130			
2,2-Dichloropropane	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
2-Butanone	0.281	0.0100	mg/kg wet	0.2500		112	70-130			
2-Chlorotoluene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
2-Hexanone	0.260	0.0100	mg/kg wet	0.2500		104	70-130			
4-Chlorotoluene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
4-Isopropyltoluene	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
4-Methyl-2-Pentanone	0.258	0.0100	mg/kg wet	0.2500		103	70-130			
Acetone	0.233	0.0100	mg/kg wet	0.2500		93	70-130			
Benzene	0.0578	0.0050	mg/kg wet	0.05000		116	70-130			
Bromobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Bromochloromethane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
Bromodichloromethane	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
Bromoform	0.0417	0.0050	mg/kg wet	0.05000		83	70-130			
Bromomethane	0.0676	0.0100	mg/kg wet	0.05000		135	70-130			B+
Carbon Disulfide	0.0608	0.0050	mg/kg wet	0.05000		122	70-130			
Carbon Tetrachloride	0.0585	0.0050	mg/kg wet	0.05000		117	70-130			
Chlorobenzene	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
Chloroethane	0.0585	0.0100	mg/kg wet	0.05000		117	70-130			
Chloroform	0.0593	0.0050	mg/kg wet	0.05000		119	70-130			
Chloromethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130			
cis-1,2-Dichloroethene	0.0579	0.0050	mg/kg wet	0.05000		116	70-130			
cis-1,3-Dichloropropene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Dibromochloromethane	0.0441	0.0020	mg/kg wet	0.05000		88	70-130			
Dibromomethane	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			
Dichlorodifluoromethane	0.0587	0.0100	mg/kg wet	0.05000		117	70-130			
Diethyl Ether	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
Di-isopropyl ether	0.0576	0.0050	mg/kg wet	0.05000		115	70-130			
Ethyl tertiary-butyl ether	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

Ethylbenzene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Hexachlorobutadiene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Isopropylbenzene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130			
Methyl tert-Butyl Ether	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Methylene Chloride	0.0594	0.0100	mg/kg wet	0.05000		119	70-130			
Naphthalene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
n-Butylbenzene	0.0586	0.0050	mg/kg wet	0.05000		117	70-130			
n-Propylbenzene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
sec-Butylbenzene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Styrene	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
tert-Butylbenzene	0.0563	0.0050	mg/kg wet	0.05000		113	70-130			
Tertiary-amyl methyl ether	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Tetrachloroethene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Tetrahydrofuran	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Toluene	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
trans-1,2-Dichloroethene	0.0561	0.0050	mg/kg wet	0.05000		112	70-130			
trans-1,3-Dichloropropene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Trichloroethene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Trichlorofluoromethane	0.0621	0.0050	mg/kg wet	0.05000		124	70-130			
Vinyl Chloride	0.0575	0.0100	mg/kg wet	0.05000		115	70-130			
Xylene O	0.0564	0.0050	mg/kg wet	0.05000		113	70-130			
Xylene P,M	0.114	0.0100	mg/kg wet	0.1000		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0529		mg/kg wet	0.05000		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0529		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0524		mg/kg wet	0.05000		105	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,1,1-Trichloroethane	0.0590	0.0050	mg/kg wet	0.05000		118	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.0563	0.0020	mg/kg wet	0.05000		113	70-130	7	20	
1,1,2-Trichloroethane	0.0563	0.0050	mg/kg wet	0.05000		113	70-130	4	20	
1,1-Dichloroethane	0.0587	0.0050	mg/kg wet	0.05000		117	70-130	0	20	
1,1-Dichloroethene	0.0585	0.0050	mg/kg wet	0.05000		117	70-130	0.6	20	
1,1-Dichloropropene	0.0594	0.0050	mg/kg wet	0.05000		119	70-130	0.03	20	
1,2,3-Trichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	3	20	
1,2,3-Trichloropropane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	8	20	
1,2,4-Trichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.5	20	
1,2,4-Trimethylbenzene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	1	20	
1,2-Dibromo-3-Chloropropane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	11	20	
1,2-Dibromoethane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	1	20	
1,2-Dichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	0	20	
1,2-Dichloroethane	0.0583	0.0050	mg/kg wet	0.05000		117	70-130	3	20	
1,2-Dichloropropane	0.0582	0.0050	mg/kg wet	0.05000		116	70-130	0.8	20	
1,3,5-Trimethylbenzene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
1,3-Dichlorobenzene	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	0.5	20	



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

1,3-Dichloropropane	0.0555	0.0050	mg/kg wet	0.05000		111	70-130	1	20	
1,4-Dichlorobenzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	1	20	
1,4-Dioxane	0.961	0.100	mg/kg wet	1.000		96	70-130	11	20	
2,2-Dichloropropane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	1	20	
2-Butanone	0.305	0.0100	mg/kg wet	0.2500		122	70-130	8	20	
2-Chlorotoluene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	2	20	
2-Hexanone	0.286	0.0100	mg/kg wet	0.2500		114	70-130	9	20	
4-Chlorotoluene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130	0.5	20	
4-Isopropyltoluene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	0.8	20	
4-Methyl-2-Pentanone	0.296	0.0100	mg/kg wet	0.2500		118	70-130	13	20	
Acetone	0.263	0.0100	mg/kg wet	0.2500		105	70-130	12	20	
Benzene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130	0.5	20	
Bromobenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
Bromochloromethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	3	20	
Bromodichloromethane	0.0580	0.0050	mg/kg wet	0.05000		116	70-130	2	20	
Bromoform	0.0431	0.0050	mg/kg wet	0.05000		86	70-130	3	20	
Bromomethane	0.0450	0.0100	mg/kg wet	0.05000		90	70-130	40	20	D+
Carbon Disulfide	0.0606	0.0050	mg/kg wet	0.05000		121	70-130	0.4	20	
Carbon Tetrachloride	0.0593	0.0050	mg/kg wet	0.05000		119	70-130	1	20	
Chlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	4	20	
Chloroethane	0.0580	0.0100	mg/kg wet	0.05000		116	70-130	0.8	20	
Chloroform	0.0592	0.0050	mg/kg wet	0.05000		118	70-130	0.2	20	
Chloromethane	0.0501	0.0100	mg/kg wet	0.05000		100	70-130	0.4	20	
cis-1,2-Dichloroethene	0.0586	0.0050	mg/kg wet	0.05000		117	70-130	1	20	
cis-1,3-Dichloropropene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Dibromochloromethane	0.0441	0.0020	mg/kg wet	0.05000		88	70-130	0.05	20	
Dibromomethane	0.0580	0.0050	mg/kg wet	0.05000		116	70-130	3	20	
Dichlorodifluoromethane	0.0580	0.0100	mg/kg wet	0.05000		116	70-130	1	20	
Diethyl Ether	0.0589	0.0050	mg/kg wet	0.05000		118	70-130	4	20	
Di-isopropyl ether	0.0590	0.0050	mg/kg wet	0.05000		118	70-130	3	20	
Ethyl tertiary-butyl ether	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	3	20	
Ethylbenzene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	4	20	
Hexachlorobutadiene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	2	20	
Isopropylbenzene	0.0558	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
Methyl tert-Butyl Ether	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	6	20	
Methylene Chloride	0.0517	0.0100	mg/kg wet	0.05000		103	70-130	14	20	
Naphthalene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	8	20	
n-Butylbenzene	0.0576	0.0050	mg/kg wet	0.05000		115	70-130	2	20	
n-Propylbenzene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130	2	20	
sec-Butylbenzene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
Styrene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	5	20	
tert-Butylbenzene	0.0552	0.0050	mg/kg wet	0.05000		110	70-130	2	20	
Tertiary-amyl methyl ether	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	4	20	
Tetrachloroethene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	4	20	
Tetrahydrofuran	0.0569	0.0050	mg/kg wet	0.05000		114	70-130	14	20	



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CJ82421 - 5035

Toluene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	0.7	20	
trans-1,2-Dichloroethene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130	2	20	
trans-1,3-Dichloropropene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	4	20	
Trichloroethene	0.0575	0.0050	mg/kg wet	0.05000		115	70-130	1	20	
Trichlorofluoromethane	0.0619	0.0050	mg/kg wet	0.05000		124	70-130	0.3	20	
Vinyl Chloride	0.0574	0.0100	mg/kg wet	0.05000		115	70-130	0.2	20	
Xylene O	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	4	20	
Xylene P,M	0.110	0.0100	mg/kg wet	0.1000		110	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	0.0546		mg/kg wet	0.05000		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0530		mg/kg wet	0.05000		106	70-130			
Surrogate: Toluene-d8	0.0502		mg/kg wet	0.05000		100	70-130			

8081B Organochlorine Pesticides

Batch CJ82517 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							



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8081B Organochlorine Pesticides

Batch CJ82517 - 3546

gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0106</i>		mg/kg wet	<i>0.01250</i>		<i>85</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0102</i>		mg/kg wet	<i>0.01250</i>		<i>82</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.00950</i>		mg/kg wet	<i>0.01250</i>		<i>76</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.00943</i>		mg/kg wet	<i>0.01250</i>		<i>75</i>	<i>30-150</i>			

LCS

4,4'-DDD	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
4,4'-DDD [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
4,4'-DDE	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
4,4'-DDE [2C]	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
4,4'-DDT	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
4,4'-DDT [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Aldrin	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Aldrin [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
alpha-BHC	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
alpha-BHC [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-Chlordane	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
alpha-Chlordane [2C]	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
beta-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
beta-BHC [2C]	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
delta-BHC	0.0101	0.0025	mg/kg wet	0.01250		81	40-140			
delta-BHC [2C]	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
Dieldrin	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Dieldrin [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Endosulfan I	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan I [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Endosulfan II	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endosulfan II [2C]	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
Endosulfan Sulfate	0.0121	0.0025	mg/kg wet	0.01250		96	40-140			
Endosulfan Sulfate [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Endrin	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Endrin [2C]	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Endrin Ketone	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Endrin Ketone [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 1810642

Quality Control Data

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8081B Organochlorine Pesticides

Batch CJ82517 - 3546

gamma-BHC (Lindane)	0.0114	0.0015	mg/kg wet	0.01250		91	40-140			
gamma-BHC (Lindane) [2C]	0.0116	0.0015	mg/kg wet	0.01250		93	40-140			
gamma-Chlordane	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
gamma-Chlordane [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Heptachlor	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Heptachlor [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
Heptachlor Epoxide	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Heptachlor Epoxide [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Hexachlorobenzene	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Hexachlorobenzene [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Methoxychlor	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Methoxychlor [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0120</i>		mg/kg wet	<i>0.01250</i>		<i>96</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0115</i>		mg/kg wet	<i>0.01250</i>		<i>92</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0113</i>		mg/kg wet	<i>0.01250</i>		<i>90</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0113</i>		mg/kg wet	<i>0.01250</i>		<i>90</i>	<i>30-150</i>			

LCS Dup

4,4'-DDD	0.0122	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
4,4'-DDD [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	2	30	
4,4'-DDE	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.7	30	
4,4'-DDE [2C]	0.0111	0.0025	mg/kg wet	0.01250		89	40-140	1	30	
4,4'-DDT	0.0117	0.0025	mg/kg wet	0.01250		93	40-140	2	30	
4,4'-DDT [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140	4	30	
Aldrin	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
Aldrin [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140	3	30	
alpha-BHC	0.0111	0.0025	mg/kg wet	0.01250		89	40-140	0.5	30	
alpha-BHC [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	3	30	
alpha-Chlordane	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.3	30	
alpha-Chlordane [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	2	30	
beta-BHC	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
beta-BHC [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	2	30	
delta-BHC	0.0104	0.0025	mg/kg wet	0.01250		84	40-140	3	30	
delta-BHC [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	1	30	
Dieldrin	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	2	30	
Dieldrin [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	2	30	
Endosulfan I	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	0.02	30	
Endosulfan I [2C]	0.0107	0.0025	mg/kg wet	0.01250		86	40-140	1	30	
Endosulfan II	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	1	30	
Endosulfan II [2C]	0.0107	0.0025	mg/kg wet	0.01250		86	40-140	0.5	30	
Endosulfan Sulfate	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.02	30	
Endosulfan Sulfate [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	0.3	30	
Endrin	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	0.7	30	
Endrin [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	1	30	
Endrin Ketone	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	0.6	30	



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch CJ82517 - 3546

Endrin Ketone [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	0.7	30	
gamma-BHC (Lindane)	0.0112	0.0015	mg/kg wet	0.01250		89	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0114	0.0015	mg/kg wet	0.01250		91	40-140	2	30	
gamma-Chlordane	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.8	30	
gamma-Chlordane [2C]	0.0108	0.0025	mg/kg wet	0.01250		87	40-140	2	30	
Heptachlor	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	5	30	
Heptachlor [2C]	0.0105	0.0025	mg/kg wet	0.01250		84	40-140	3	30	
Heptachlor Epoxide	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	0.7	30	
Heptachlor Epoxide [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	2	30	
Hexachlorobenzene	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	4	30	
Hexachlorobenzene [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	4	30	
Methoxychlor	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	1	30	
Methoxychlor [2C]	0.0108	0.0025	mg/kg wet	0.01250		87	40-140	1	30	

Surrogate: Decachlorobiphenyl	0.0115		mg/kg wet	0.01250		92	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0112		mg/kg wet	0.01250		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0107		mg/kg wet	0.01250		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0104		mg/kg wet	0.01250		84	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch CJ82512 - 3540C

Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0246		mg/kg wet	0.02500		98	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0231		mg/kg wet	0.02500		93	30-150			



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch CJ82512 - 3540C

LCS

Aroclor 1016	0.6	0.05	mg/kg wet	0.5000		111	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		103	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		107	40-140			
Surrogate: Decachlorobiphenyl	0.0278		mg/kg wet	0.02500		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0270		mg/kg wet	0.02500		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.0267		mg/kg wet	0.02500		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0247		mg/kg wet	0.02500		99	30-150			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		107	40-140	3	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		100	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		99	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		103	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0257		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0243		mg/kg wet	0.02500		97	30-150			

8100M Total Petroleum Hydrocarbons

Batch CJ82519 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

Surrogate: O-Terphenyl	4.32		mg/kg wet	5.000		86	40-140			
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LCS

Decane (C10)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Docosane (C22)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		74	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch CJ82519 - 3546

Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		86	40-140			
Hexacosane (C26)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Hexatriacontane (C36)	2.4	0.2	mg/kg wet	2.500		94	40-140			
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Nonane (C9)	1.5	0.2	mg/kg wet	2.500		60	30-140			
Octacosane (C28)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500		82	40-140			
Tetracosane (C24)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Total Petroleum Hydrocarbons	32.1	10.0	mg/kg wet	35.00		92	40-140			
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		87	40-140			

Surrogate: O-Terphenyl	4.21		mg/kg wet	5.000		84	40-140			
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LCS Dup

Decane (C10)	1.7	0.2	mg/kg wet	2.500		68	40-140	3	25	
Docosane (C22)	2.2	0.2	mg/kg wet	2.500		87	40-140	0.3	25	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		76	40-140	2	25	
Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		86	40-140	0.3	25	
Hexacosane (C26)	2.2	0.2	mg/kg wet	2.500		87	40-140	0.1	25	
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500		81	40-140	2	25	
Hexatriacontane (C36)	2.3	0.2	mg/kg wet	2.500		94	40-140	0.2	25	
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		92	40-140	0.6	25	
Nonane (C9)	1.5	0.2	mg/kg wet	2.500		61	30-140	2	25	
Octacosane (C28)	2.2	0.2	mg/kg wet	2.500		87	40-140	0.02	25	
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500		83	40-140	1	25	
Tetracosane (C24)	2.2	0.2	mg/kg wet	2.500		87	40-140	0.2	25	
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		78	40-140	3	25	
Total Petroleum Hydrocarbons	31.8	10.0	mg/kg wet	35.00		91	40-140	0.9	25	
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		87	40-140	0.2	25	

Surrogate: O-Terphenyl	4.20		mg/kg wet	5.000		84	40-140			
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8151A Chlorinated Herbicides

Batch CJ83033 - 3546

Blank										
2,4,5-T	ND	0.010	mg/kg wet							
2,4,5-T [2C]	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	0.010	mg/kg wet							
2,4-D	ND	0.047	mg/kg wet							
2,4-D [2C]	ND	0.047	mg/kg wet							
2,4-DB	ND	0.048	mg/kg wet							
2,4-DB [2C]	ND	0.048	mg/kg wet							
Dalapon	ND	0.046	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8151A Chlorinated Herbicides

Batch CJ83033 - 3546

Dalapon [2C]	ND	0.046	mg/kg wet							
Dicamba	ND	0.009	mg/kg wet							
Dicamba [2C]	ND	0.009	mg/kg wet							
Dichlorprop	ND	0.047	mg/kg wet							
Dichlorprop [2C]	ND	0.047	mg/kg wet							
Dinoseb	ND	0.048	mg/kg wet							
Dinoseb [2C]	ND	0.048	mg/kg wet							
MCPA	ND	2.32	mg/kg wet							
MCPA [2C]	ND	2.32	mg/kg wet							
MCPP	ND	2.35	mg/kg wet							
MCPP [2C]	ND	2.35	mg/kg wet							

Surrogate: DCAA	0.201		mg/kg wet	0.2000		101	30-150			
Surrogate: DCAA [2C]	0.187		mg/kg wet	0.2000		94	30-150			

LCS

2,4,5-T	0.017	0.010	mg/kg wet	0.01900		90	40-140			
2,4,5-T [2C]	0.014	0.010	mg/kg wet	0.01900		76	40-140			
2,4,5-TP (Silvex)	0.016	0.010	mg/kg wet	0.01900		82	40-140			
2,4,5-TP (Silvex) [2C]	0.016	0.010	mg/kg wet	0.01900		82	40-140			
2,4-D	0.199	0.047	mg/kg wet	0.1880		106	40-140			
2,4-D [2C]	0.184	0.047	mg/kg wet	0.1880		98	40-140			
2,4-DB	0.189	0.048	mg/kg wet	0.1900		100	40-140			
2,4-DB [2C]	0.167	0.048	mg/kg wet	0.1900		88	40-140			
Dalapon	0.310	0.046	mg/kg wet	0.4550		68	40-140			
Dalapon [2C]	0.333	0.046	mg/kg wet	0.4550		73	40-140			
Dicamba	0.015	0.009	mg/kg wet	0.01880		80	40-140			
Dicamba [2C]	0.017	0.009	mg/kg wet	0.01880		88	40-140			
Dichlorprop	0.164	0.047	mg/kg wet	0.1880		87	40-140			
Dichlorprop [2C]	0.164	0.047	mg/kg wet	0.1880		87	40-140			
Dinoseb	0.013	0.048	mg/kg wet	0.09500		13	10-100			
Dinoseb [2C]	0.013	0.048	mg/kg wet	0.09500		14	10-100			
MCPA	16.9	2.32	mg/kg wet	18.60		91	40-140			
MCPA [2C]	18.6	2.32	mg/kg wet	18.60		100	40-140			
MCPP	15.6	2.35	mg/kg wet	18.80		83	40-140			
MCPP [2C]	16.2	2.35	mg/kg wet	18.80		86	40-140			

Surrogate: DCAA	0.234		mg/kg wet	0.2000		117	30-150			
Surrogate: DCAA [2C]	0.228		mg/kg wet	0.2000		114	30-150			

LCS Dup

2,4,5-T	0.016	0.010	mg/kg wet	0.01900		82	40-140	9	30	
2,4,5-T [2C]	0.013	0.010	mg/kg wet	0.01900		68	40-140	11	30	
2,4,5-TP (Silvex)	0.015	0.010	mg/kg wet	0.01900		80	40-140	2	30	
2,4,5-TP (Silvex) [2C]	0.014	0.010	mg/kg wet	0.01900		76	40-140	8	30	
2,4-D	0.187	0.047	mg/kg wet	0.1880		99	40-140	6	30	
2,4-D [2C]	0.175	0.047	mg/kg wet	0.1880		93	40-140	5	30	
2,4-DB	0.187	0.048	mg/kg wet	0.1900		98	40-140	1	30	



CERTIFICATE OF ANALYSIS

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8151A Chlorinated Herbicides

Batch CJ83033 - 3546

2,4-DB [2C]	0.155	0.048	mg/kg wet	0.1900		82	40-140	7	30	
Dalapon	0.302	0.046	mg/kg wet	0.4550		66	40-140	3	30	
Dalapon [2C]	0.326	0.046	mg/kg wet	0.4550		72	40-140	2	30	
Dicamba	0.014	0.009	mg/kg wet	0.01880		76	40-140	5	30	
Dicamba [2C]	0.016	0.009	mg/kg wet	0.01880		84	40-140	5	30	
Dichlorprop	0.158	0.047	mg/kg wet	0.1880		84	40-140	4	30	
Dichlorprop [2C]	0.154	0.047	mg/kg wet	0.1880		82	40-140	6	30	
Dinoseb	0.013	0.048	mg/kg wet	0.09500		13	10-100	0	30	
Dinoseb [2C]	0.013	0.048	mg/kg wet	0.09500		13	10-100	6	30	
MCPA	15.8	2.32	mg/kg wet	18.60		85	40-140	7	30	
MCPA [2C]	17.6	2.32	mg/kg wet	18.60		94	40-140	6	30	
MCPP	15.0	2.35	mg/kg wet	18.80		80	40-140	4	30	
MCPP [2C]	15.4	2.35	mg/kg wet	18.80		82	40-140	5	30	

Surrogate: DCAA	0.215		mg/kg wet	0.2000		108	30-150			
Surrogate: DCAA [2C]	0.200		mg/kg wet	0.2000		100	30-150			

8270D Semi-Volatile Organic Compounds

Batch CJ82309 - 3546

Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							



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8270D Semi-Volatile Organic Compounds

Batch CJ82309 - 3546

Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.14		mg/kg wet	3.333		64	30-130			
<i>Surrogate: 2,4,6-Tribromophenol</i>	3.40		mg/kg wet	5.000		68	30-130			
<i>Surrogate: 2-Chlorophenol-d4</i>	3.50		mg/kg wet	5.000		70	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.14		mg/kg wet	3.333		64	30-130			
<i>Surrogate: 2-Fluorophenol</i>	3.50		mg/kg wet	5.000		70	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.21		mg/kg wet	3.333		66	30-130			
<i>Surrogate: Phenol-d6</i>	3.53		mg/kg wet	5.000		71	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	2.29		mg/kg wet	3.333		69	30-130			

LCS

1,2,4-Trichlorobenzene	2.24	0.333	mg/kg wet	3.333		67	40-140			
1,2-Dichlorobenzene	2.25	0.333	mg/kg wet	3.333		67	40-140			
1,3-Dichlorobenzene	2.22	0.333	mg/kg wet	3.333		67	40-140			



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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CJ82309 - 3546

1,4-Dichlorobenzene	2.23	0.333	mg/kg wet	3.333		67	40-140			
2,4,5-Trichlorophenol	2.56	0.333	mg/kg wet	3.333		77	30-130			
2,4,6-Trichlorophenol	2.41	0.333	mg/kg wet	3.333		72	30-130			
2,4-Dichlorophenol	2.39	0.333	mg/kg wet	3.333		72	30-130			
2,4-Dimethylphenol	2.44	0.333	mg/kg wet	3.333		73	30-130			
2,4-Dinitrophenol	3.20	1.67	mg/kg wet	3.333		96	30-130			
2,4-Dinitrotoluene	3.05	0.333	mg/kg wet	3.333		91	40-140			
2,6-Dinitrotoluene	2.75	0.333	mg/kg wet	3.333		82	40-140			
2-Chloronaphthalene	2.28	0.333	mg/kg wet	3.333		68	40-140			
2-Chlorophenol	2.36	0.333	mg/kg wet	3.333		71	30-130			
2-Methylnaphthalene	2.28	0.333	mg/kg wet	3.333		68	40-140			
2-Methylphenol	2.40	0.333	mg/kg wet	3.333		72	30-130			
2-Nitrophenol	2.35	0.333	mg/kg wet	3.333		71	30-130			
3,3'-Dichlorobenzidine	1.94	0.667	mg/kg wet	3.333		58	40-140			
3+4-Methylphenol	4.98	0.667	mg/kg wet	6.667		75	30-130			
4-Bromophenyl-phenylether	2.33	0.333	mg/kg wet	3.333		70	40-140			
4-Chloroaniline	1.58	0.667	mg/kg wet	3.333		47	40-140			
4-Nitrophenol	3.45	1.67	mg/kg wet	3.333		103	30-130			
Acenaphthene	2.33	0.333	mg/kg wet	3.333		70	40-140			
Acenaphthylene	2.22	0.333	mg/kg wet	3.333		67	40-140			
Acetophenone	2.47	0.667	mg/kg wet	3.333		74	40-140			
Aniline	1.73	1.67	mg/kg wet	3.333		52	40-140			
Anthracene	2.57	0.333	mg/kg wet	3.333		77	40-140			
Azobenzene	2.34	0.333	mg/kg wet	3.333		70	40-140			
Benzo(a)anthracene	2.53	0.333	mg/kg wet	3.333		76	40-140			
Benzo(a)pyrene	2.70	0.167	mg/kg wet	3.333		81	40-140			
Benzo(b)fluoranthene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Benzo(g,h,i)perylene	2.62	0.333	mg/kg wet	3.333		78	40-140			
Benzo(k)fluoranthene	2.58	0.333	mg/kg wet	3.333		77	40-140			
bis(2-Chloroethoxy)methane	2.37	0.333	mg/kg wet	3.333		71	40-140			
bis(2-Chloroethyl)ether	2.26	0.333	mg/kg wet	3.333		68	40-140			
bis(2-chloroisopropyl)Ether	2.17	0.333	mg/kg wet	3.333		65	40-140			
bis(2-Ethylhexyl)phthalate	2.82	0.333	mg/kg wet	3.333		85	40-140			
Butylbenzylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140			
Chrysene	2.57	0.167	mg/kg wet	3.333		77	40-140			
Dibenzo(a,h)Anthracene	2.69	0.167	mg/kg wet	3.333		81	40-140			
Dibenzofuran	2.41	0.333	mg/kg wet	3.333		72	40-140			
Diethylphthalate	2.75	0.333	mg/kg wet	3.333		83	40-140			
Dimethylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140			
Di-n-butylphthalate	2.84	0.333	mg/kg wet	3.333		85	40-140			
Di-n-octylphthalate	3.04	0.333	mg/kg wet	3.333		91	40-140			
Fluoranthene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Fluorene	2.55	0.333	mg/kg wet	3.333		77	40-140			
Hexachlorobenzene	2.42	0.333	mg/kg wet	3.333		73	40-140			
Hexachlorobutadiene	2.23	0.333	mg/kg wet	3.333		67	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CJ82309 - 3546

Hexachloroethane	2.17	0.333	mg/kg wet	3.333		65	40-140			
Indeno(1,2,3-cd)Pyrene	2.68	0.333	mg/kg wet	3.333		80	40-140			
Isophorone	2.24	0.333	mg/kg wet	3.333		67	40-140			
Naphthalene	2.30	0.333	mg/kg wet	3.333		69	40-140			
Nitrobenzene	2.36	0.333	mg/kg wet	3.333		71	40-140			
N-Nitrosodimethylamine	2.13	0.333	mg/kg wet	3.333		64	40-140			
Pentachlorophenol	3.13	1.67	mg/kg wet	3.333		94	30-130			
Phenanthrene	2.50	0.333	mg/kg wet	3.333		75	40-140			
Phenol	2.46	0.333	mg/kg wet	3.333		74	30-130			
Pyrene	2.50	0.333	mg/kg wet	3.333		75	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.29		mg/kg wet	3.333		69	30-130			
Surrogate: 2,4,6-Tribromophenol	4.01		mg/kg wet	5.000		80	30-130			
Surrogate: 2-Chlorophenol-d4	3.76		mg/kg wet	5.000		75	30-130			
Surrogate: 2-Fluorobiphenyl	2.32		mg/kg wet	3.333		70	30-130			
Surrogate: 2-Fluorophenol	3.80		mg/kg wet	5.000		76	30-130			
Surrogate: Nitrobenzene-d5	2.47		mg/kg wet	3.333		74	30-130			
Surrogate: Phenol-d6	3.91		mg/kg wet	5.000		78	30-130			
Surrogate: p-Terphenyl-d14	2.68		mg/kg wet	3.333		80	30-130			

LCS Dup

1,2,4-Trichlorobenzene	2.50	0.333	mg/kg wet	3.333		75	40-140	11	30	
1,2-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140	9	30	
1,3-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140	10	30	
1,4-Dichlorobenzene	2.47	0.333	mg/kg wet	3.333		74	40-140	10	30	
2,4,5-Trichlorophenol	2.79	0.333	mg/kg wet	3.333		84	30-130	9	30	
2,4,6-Trichlorophenol	2.67	0.333	mg/kg wet	3.333		80	30-130	10	30	
2,4-Dichlorophenol	2.62	0.333	mg/kg wet	3.333		79	30-130	9	30	
2,4-Dimethylphenol	2.68	0.333	mg/kg wet	3.333		80	30-130	9	30	
2,4-Dinitrophenol	3.29	1.67	mg/kg wet	3.333		99	30-130	3	30	
2,4-Dinitrotoluene	3.10	0.333	mg/kg wet	3.333		93	40-140	2	30	
2,6-Dinitrotoluene	2.88	0.333	mg/kg wet	3.333		86	40-140	5	30	
2-Chloronaphthalene	2.49	0.333	mg/kg wet	3.333		75	40-140	9	30	
2-Chlorophenol	2.56	0.333	mg/kg wet	3.333		77	30-130	8	30	
2-Methylnaphthalene	2.47	0.333	mg/kg wet	3.333		74	40-140	8	30	
2-Methylphenol	2.55	0.333	mg/kg wet	3.333		77	30-130	6	30	
2-Nitrophenol	2.62	0.333	mg/kg wet	3.333		79	30-130	11	30	
3,3'-Dichlorobenzidine	2.10	0.667	mg/kg wet	3.333		63	40-140	8	30	
3+4-Methylphenol	5.23	0.667	mg/kg wet	6.667		78	30-130	5	30	
4-Bromophenyl-phenylether	2.53	0.333	mg/kg wet	3.333		76	40-140	8	30	
4-Chloroaniline	1.72	0.667	mg/kg wet	3.333		51	40-140	8	30	
4-Nitrophenol	3.52	1.67	mg/kg wet	3.333		106	30-130	2	30	
Acenaphthene	2.58	0.333	mg/kg wet	3.333		77	40-140	10	30	
Acenaphthylene	2.47	0.333	mg/kg wet	3.333		74	40-140	10	30	
Acetophenone	2.66	0.667	mg/kg wet	3.333		80	40-140	8	30	
Aniline	1.88	1.67	mg/kg wet	3.333		56	40-140	9	30	
Anthracene	2.72	0.333	mg/kg wet	3.333		82	40-140	6	30	



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270D Semi-Volatile Organic Compounds

Batch CJ82309 - 3546

Azobenzene	2.54	0.333	mg/kg wet	3.333		76	40-140	8	30	
Benzo(a)anthracene	2.64	0.333	mg/kg wet	3.333		79	40-140	4	30	
Benzo(a)pyrene	2.81	0.167	mg/kg wet	3.333		84	40-140	4	30	
Benzo(b)fluoranthene	2.89	0.333	mg/kg wet	3.333		87	40-140	4	30	
Benzo(g,h,i)perylene	2.76	0.333	mg/kg wet	3.333		83	40-140	5	30	
Benzo(k)fluoranthene	2.71	0.333	mg/kg wet	3.333		81	40-140	5	30	
bis(2-Chloroethoxy)methane	2.63	0.333	mg/kg wet	3.333		79	40-140	10	30	
bis(2-Chloroethyl)ether	2.48	0.333	mg/kg wet	3.333		74	40-140	9	30	
bis(2-chloroisopropyl)Ether	2.38	0.333	mg/kg wet	3.333		71	40-140	9	30	
bis(2-Ethylhexyl)phthalate	2.80	0.333	mg/kg wet	3.333		84	40-140	0.9	30	
Butylbenzylphthalate	2.68	0.333	mg/kg wet	3.333		80	40-140	0.4	30	
Chrysene	2.71	0.167	mg/kg wet	3.333		81	40-140	5	30	
Dibenzo(a,h)Anthracene	2.85	0.167	mg/kg wet	3.333		85	40-140	6	30	
Dibenzofuran	2.64	0.333	mg/kg wet	3.333		79	40-140	9	30	
Diethylphthalate	2.81	0.333	mg/kg wet	3.333		84	40-140	2	30	
Dimethylphthalate	2.69	0.333	mg/kg wet	3.333		81	40-140	5	30	
Di-n-butylphthalate	2.97	0.333	mg/kg wet	3.333		89	40-140	4	30	
Di-n-octylphthalate	2.99	0.333	mg/kg wet	3.333		90	40-140	2	30	
Fluoranthene	3.13	0.333	mg/kg wet	3.333		94	40-140	8	30	
Fluorene	2.75	0.333	mg/kg wet	3.333		83	40-140	8	30	
Hexachlorobenzene	2.59	0.333	mg/kg wet	3.333		78	40-140	7	30	
Hexachlorobutadiene	2.50	0.333	mg/kg wet	3.333		75	40-140	11	30	
Hexachloroethane	2.42	0.333	mg/kg wet	3.333		73	40-140	11	30	
Indeno(1,2,3-cd)Pyrene	2.82	0.333	mg/kg wet	3.333		85	40-140	5	30	
Isophorone	2.43	0.333	mg/kg wet	3.333		73	40-140	8	30	
Naphthalene	2.56	0.333	mg/kg wet	3.333		77	40-140	11	30	
Nitrobenzene	2.65	0.333	mg/kg wet	3.333		79	40-140	12	30	
N-Nitrosodimethylamine	2.35	0.333	mg/kg wet	3.333		71	40-140	10	30	
Pentachlorophenol	3.25	1.67	mg/kg wet	3.333		98	30-130	4	30	
Phenanthrene	2.64	0.333	mg/kg wet	3.333		79	40-140	5	30	
Phenol	2.64	0.333	mg/kg wet	3.333		79	30-130	7	30	
Pyrene	2.46	0.333	mg/kg wet	3.333		74	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.44		mg/kg wet	3.333		73	30-130			
Surrogate: 2,4,6-Tribromophenol	4.13		mg/kg wet	5.000		83	30-130			
Surrogate: 2-Chlorophenol-d4	3.99		mg/kg wet	5.000		80	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/kg wet	3.333		77	30-130			
Surrogate: 2-Fluorophenol	4.05		mg/kg wet	5.000		81	30-130			
Surrogate: Nitrobenzene-d5	2.66		mg/kg wet	3.333		80	30-130			
Surrogate: Phenol-d6	4.07		mg/kg wet	5.000		81	30-130			
Surrogate: p-Terphenyl-d14	2.55		mg/kg wet	3.333		77	30-130			

Classical Chemistry

Batch CJ82415 - General Preparation

Blank

Conductivity	ND	5	umhos/cm
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CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
 Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CJ82415 - General Preparation										
LCS										
Conductivity	1360		umhos/cm	1411		97	90-110			
Batch CJ82627 - General Preparation										
Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	3.9	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	ND	2.0	mg/kg	10.00		0	0-44			
Batch CJ82628 - General Preparation										
Reference										
Flashpoint	81		°F	81.00		100	97.9-102.1			



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

Notes and Definitions

- Z-10 Soil pH measured in water at 20.1 °C.
- Z-09 ND
- XH Peaks found in the retention time window for MCPD did not confirm by GC/MS.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- ICV+ Initial Calibration Verification recovery is above upper control limit (ICV+).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- B+ Blank Spike recovery is above upper control limit (B+).
- > Greater than.
- # Modified result
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc
Client Project ID: Eversource Transmission Project

ESS Laboratory Work Order: 1810642

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Vanasse Hangen Brustlin, Inc (MA) - KPB/TB/HDM

ESS Project ID: 1810642
 Date Received: 10/23/2018
 Project Due Date: 10/30/2018
 Days for Project: 5 Day

Shipped/Delivered Via: ESS Courier

- | | |
|---|--|
| 1. Air bill manifest present? <input type="checkbox"/> No
Air No.: <u>NA</u>
2. Were custody seals present? <input type="checkbox"/> No
3. Is radiation count <100 CPM? <input type="checkbox"/> Yes
4. Is a Cooler Present? <input type="checkbox"/> Yes
Temp: <u>.1</u> Iced with: <u>Ice</u>
5. Was COC signed and dated by client? <input type="checkbox"/> Yes | 6. Does COC match bottles? <input type="checkbox"/> Yes
7. Is COC complete and correct? <input type="checkbox"/> Yes
8. Were samples received intact? <input type="checkbox"/> Yes
9. Were labs informed about <u>short holds & rushes</u> ? <input checked="" type="checkbox"/> Yes / No / NA
10. Were any analyses received outside of hold time? Yes <input checked="" type="checkbox"/> No |
|---|--|

- | | |
|---|---|
| 11. Any Subcontracting needed? Yes <input checked="" type="checkbox"/> No
ESS Sample IDs: _____
Analysis: _____
TAT: _____ | 12. Were VOAs received? <input checked="" type="checkbox"/> Yes / No
a. Air bubbles in aqueous VOAs? Yes / No
b. Does methanol cover soil completely? <input checked="" type="checkbox"/> Yes / No / NA |
|---|---|

13. Are the samples properly preserved? Yes / No
- a. If metals preserved upon receipt: Date: 10/18/18 Time: 1600 By: Client
- b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

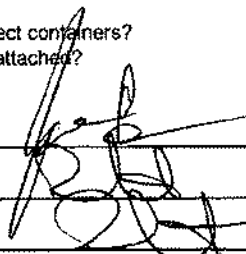
Sample Receiving Notes:


14. Was there a need to contact Project Manager? Yes / No
- a. Was there a need to contact the client? Yes / No
- Who was contacted? _____ Date: _____ Time: _____ By: _____


Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	281341	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	281342	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	281343	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	281344	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	281345	Yes	NA	Yes	VOA Vial - Other	Other	
01	281346	Yes	NA	Yes	VOA Vial - Other	Other	

2nd Review

- Are barcode labels on correct containers? Yes / No
- Are all necessary stickers attached? Yes / No

Completed By:  Date & Time: 10/23/18 17:20

Reviewed By:  Date & Time: 10/23/18 1721

Delivered By:  Date & Time: 10/23/18 1721



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
 East Longmeadow, MA 01028

1810642

Page 1 of 1

Company Name: VHB
 Address: 101 Walnut Street, Watertown, MA
 Phone: 617-607-1841
 Project Name: Eversource Transmission Project
 Project Location: Sudbury, Massachusetts
 Project Number: 12970.03
 Project Manager: Paige Cornell
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: TJP

Requested Turnaround Time
 7-Day 10-Day
 Due Date: _____

Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day

Data Delivery
 Format: PDF EXCEL
 Other: Limit Checker
 CLP Like Data Pkg Required:
 Email To: pcorneil@vhb.com; pmckinlay@vhb.com;
 tvierbillips@vhb.com; thevanse@vhb.com
 Fax To #: _____

		1	1	1	3															
		I	I	I	M/O	I														
		A	A	A	V	A														
Conductivity	Ignitability, pH, Reactivity																			
	Conductivity																			
	Pesticide/Herbicide																			
	SVOCs, PCBs, TPH																			
	VOCs																			
MCP 14 Metals																				

ANALYSIS REQUESTED

of Containers
 2 Preservation Code
 3 Container Code

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

Con-Test Work Order#	Client	Date	Time	Matrix	U	S	L	M	H	Conductivity	Pesticide/Herbicide	SVOCs, PCBs, TPH	VOCs	MCP 14 Metals
1	MP36	10/16/18	14:00		x	x				x	x	x	x	x

- 1 Matrix Codes:**
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)
- 2 Preservation Codes:**
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define) _DI
 H2O
- 3 Container Codes:**
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

Comments: Temp - 0.1 Ice
 Vials frozen on day of generation by 16:00
 TCLP 20x Rule
 Thank you!

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Detection Limit Requirements	Special Requirements
[Signature]	10/23 14:10	MA	<input checked="" type="checkbox"/> MA MCP Required
Received by: (signature)	Date/Time:		MCP Certification Form Required
[Signature]	14:10		<input type="checkbox"/> CT RCP Required
Relinquished by: (signature)	Date/Time:	CT	RCP Certification Form Required
[Signature]	16:19		<input type="checkbox"/> MA State DW Required
Received by: (signature)	Date/Time:	Other:	PWSID #
[Signature]	10/23/18 17:18		
Relinquished by: (signature)	Date/Time:	Project Entity	Other
[Signature]		<input type="checkbox"/> Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> WRTA	<input type="checkbox"/> Chromatogram
Received by: (signature)	Date/Time:	<input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School	<input type="checkbox"/> AIHA-LAP, LLC
		<input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA	<input type="checkbox"/> Non Soxhlet



PCB ONLY
 Soxhlet
 Non Soxhlet

June 29, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18F0316

Enclosed are results of analyses for samples received by the laboratory on June 7, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent 'K' and 'M'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B9	18F0316-01	Soil		- Attached SM D 422-63	GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO
B10	18F0316-02	Soil		- Attached SM D 422-63	GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO
B14	18F0316-03	Soil		- Attached SM D 422-63	GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO
SB19	18F0316-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB47	18F0316-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB45	18F0316-06	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB18	18F0316-07	Soil		SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SB2	
SM21-22 2510B Modified					
SW-846 1030					
SW-846 6010C-D					
SW-846 7471B					
SW-846 8081B					
SW-846 8082A					
SW-846 8100 Modified					
SW-846 8151A					
SW-846 8260C					
SW-846 8270D					
SW-846 9014					
SW-846 9030A					
SW-846 9045C					
MP10	18F0316-09	Soil			-
				Attached	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP3	18F0316-10	Soil		-	GAI-LAP-20-1996/AASH TO
				Attached	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

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Vanasse Hangen Brustlin, Inc.
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 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP6	18F0316-11	Soil		-	GAI-LAP-20-1996/AASH TO
				Attached	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
MP24	18F0316-12	Soil		-	GAI-LAP-20-1996/AASH TO
				Attached	GAI-LAP-20-1996/AASH TO
				SM 2540G	
				SM D 422-63	GAI-LAP-20-1996/AASH TO
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
SB17	18F0316-13	Soil		SW-846 9030A	
				SW-846 9045C	
				SM 2540G	
				SM21-22 2510B Modified	
				SW-846 1030	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
	SW-846 9045C				

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB43	18F0316-14	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB3	18F0316-15	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB/MW24	18F0316-16	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB16	18F0316-17	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
B8	18F0316-18	Soil		- Attached SM D 422-63	GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO
B22	18F0316-19	Soil		- Attached SM D 422-63	GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO GAI-LAP-20-1996/AASH TO

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
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REPORT DATE: 6/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0316

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B23	18F0316-20	Soil		-	GAI-LAP-20-1996/AASH TO
				Attached	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 06/11/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SM21-22 2510B Modified

Qualifications:**R-04**

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:**Specific conductance**

18F0316-04[SB19], B205963-DUP1

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16]

SW-846 8151A

Qualifications:**S-02**

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:**2,4-Dichlorophenylacetic acid [2C]**

18F0316-15[SB3]

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:**2,4-Dichlorophenylacetic acid [2C]**

18F0316-15[SB3]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4,5-T**

B205237-MS1, B205237-MSD1

2,4,5-TP (Silvex)

B205237-MS1, B205237-MSD1

2,4-D

B205237-MS1, B205237-MSD1

2,4-DB

B205237-MS1, B205237-MSD1

2,4-DB [2C]

B205237-MS1, B205237-MSD1

Dichloroprop

B205237-MS1, B205237-MSD1

Dinoseb

B205237-BS1, B205237-BSD1, B205237-MS1, B205237-MSD1

Dinoseb [2C]

B205237-MS1, B205237-MSD1

MCPA [2C]

B205237-MS1, B205237-MSD1

MCPP [2C]

B205237-MS1, B205237-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-DB [2C]**

18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16]

Dinoseb [2C]

18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16]

SW-846 8260C**Qualifications:****L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Bromochloromethane**

B205443-BS1, B205443-BSD1

Hexachlorobutadiene

B205443-BS1, B205443-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,2,3-Trichloropropane**

18F0316-06[SB45], 18F0316-07[SB18], B205443-BLK1, B205443-BS1, B205443-BSD1

Bromomethane

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1, B205443-BLK1, B205443-BS1, B205443-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1, B205443-BLK1, B205443-BS1, B205443-BSD1, S024139-CCV1

Methylene Chloride

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1

Tetrahydrofuran

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B205443-BS1, B205443-BSD1, S024197-CCV1

Hexachlorobutadiene

B205443-BS1, B205443-BSD1, S024197-CCV1

Methylene Chloride

B205426-BS1, B205426-BSD1, S024139-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1, S024139-CCV1

Dichlorodifluoromethane (Freon 12)

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205426-BLK1, B205426-BS1, B205426-BSD1, S024139-CCV1

SW-846 8270D

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Qualifications:**V-04**

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205242-BLK1, B205242-BS1, B205242-BSD1, B205242-MS1, B205242-MSD1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205242-BLK1, B205242-BS1, B205242-BSD1, B205242-MS1, B205242-MSD1

4-Chloroaniline

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205242-BLK1, B205242-BS1, B205242-BSD1, B205242-MS1, B205242-MSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18F0316-04[SB19], 18F0316-05[SB47], 18F0316-06[SB45], 18F0316-07[SB18], 18F0316-08[SB2], 18F0316-12[MP24], 18F0316-13[SB17], 18F0316-14[SB43], 18F0316-15[SB3], 18F0316-16[SB/MW24], 18F0316-17[SB16], B205232-DUP2, B205335-DUP1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B9

Sampled: 5/22/2018 09:28

Sample ID: 18F0316-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	See Attached		Attached	1		SM D 422-63		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B9

Sampled: 5/22/2018 09:28

Sample ID: 18F0316-01

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachedc		Attached	1		Attached		6/19/18 0:00	GEO
See Attached Report Pages	SeeAttachedc		Attached	1		Attached		6/28/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/22/2018 10:40

Field Sample #: B10

Sample ID: 18F0316-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttachec		Attached	1		SM D 422-63		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/22/2018 10:40

Field Sample #: B10

Sample ID: 18F0316-02

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttached		Attached	1		Attached		6/23/18 0:00	GEO
See Attached Report Pages	SeeAttached		Attached	1		Attached		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B14

Sampled: 5/23/2018 13:50

Sample ID: 18F0316-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/23/2018 13:50

Field Sample #: B14

Sample ID: 18F0316-03

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/26/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Bromochloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Bromomethane	ND	0.012	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 7:20	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
n-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Carbon Disulfide	ND	0.0070	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Carbon Tetrachloride	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Chlorodibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Chloroethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.012	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
cis-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
trans-1,3-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Diethyl Ether	ND	0.012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,4-Dioxane	ND	0.12	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Isopropylbenzene (Cumene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Methylene Chloride	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	100	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Aniline	ND	0.35	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:16	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	72.3	30-130	
Phenol-d6	75.0	30-130	
Nitrobenzene-d5	68.6	30-130	
2-Fluorobiphenyl	59.9	30-130	
2,4,6-Tribromophenol	74.2	30-130	
p-Terphenyl-d14	77.3	30-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 10:16

Field Sample #: SB19

Sample ID: 18F0316-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Aldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
alpha-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
beta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
delta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
4,4'-DDD [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endosulfan I [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endosulfan II [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endosulfan sulfate [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endrin [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endrin aldehyde [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Endrin ketone [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Heptachlor [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Heptachlor epoxide [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Methoxychlor [1]	ND	0.051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 9:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.3	30-150					6/12/18 9:48	
Decachlorobiphenyl [2]		86.4	30-150					6/12/18 9:48	
Tetrachloro-m-xylene [1]		78.7	30-150					6/12/18 9:48	
Tetrachloro-m-xylene [2]		96.8	30-150					6/12/18 9:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:20	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.4	30-150					6/8/18 23:20	
Decachlorobiphenyl [2]		81.6	30-150					6/8/18 23:20	
Tetrachloro-m-xylene [1]		79.5	30-150					6/8/18 23:20	
Tetrachloro-m-xylene [2]		83.7	30-150					6/8/18 23:20	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 10:16

Field Sample #: SB19

Sample ID: 18F0316-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:08	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		109	30-150					6/15/18 2:08	
2,4-Dichlorophenylacetic acid [2]		137	30-150					6/15/18 2:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB19

Sampled: 5/31/2018 10:16

Sample ID: 18F0316-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.6	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 12:14	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		68.9	40-140					6/11/18 12:14	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 10:16

Field Sample #: SB19

Sample ID: 18F0316-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Arsenic	4.7	1.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Barium	14	1.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Beryllium	0.22	0.17	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Chromium	10	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Lead	3.5	0.52	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:16	EJB
Nickel	9.2	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Vanadium	7.7	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW
Zinc	13	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:10	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 10:16

Field Sample #: SB19

Sample ID: 18F0316-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @24.3°C	4.7		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	4.7	2.0	µmhos/cm	1	R-04	SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	95.3		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Benzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Bromobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Bromochloromethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Bromodichloromethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Bromoform	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Bromomethane	ND	0.0046	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 7:47	MFF
2-Butanone (MEK)	ND	0.018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
n-Butylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
sec-Butylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
tert-Butylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Carbon Disulfide	ND	0.0027	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Carbon Tetrachloride	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Chlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Chlorodibromomethane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Chloroethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Chloroform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Chloromethane	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
2-Chlorotoluene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
4-Chlorotoluene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2-Dibromoethane (EDB)	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Dibromomethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2-Dichlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,3-Dichlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,4-Dichlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0046	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1-Dichloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2-Dichloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
cis-1,2-Dichloroethylene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
trans-1,2-Dichloroethylene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2-Dichloropropane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,3-Dichloropropane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
2,2-Dichloropropane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1-Dichloropropene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
cis-1,3-Dichloropropene	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
trans-1,3-Dichloropropene	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Diethyl Ether	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Diisopropyl Ether (DIPE)	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,4-Dioxane	ND	0.046	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Ethylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 09:42

Field Sample #: SB47

Sample ID: 18F0316-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
2-Hexanone (MBK)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Isopropylbenzene (Cumene)	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Methylene Chloride	0.0052	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Naphthalene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
n-Propylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Styrene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1,1,2-Tetrachloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Tetrachloroethylene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Tetrahydrofuran	ND	0.0046	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Toluene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2,3-Trichlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2,4-Trichlorobenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1,1-Trichloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,1,2-Trichloroethane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Trichloroethylene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2,3-Trichloropropane	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,2,4-Trimethylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
1,3,5-Trimethylbenzene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
Vinyl Chloride	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
m+p Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF
o-Xylene	ND	0.00092	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 7:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	109	70-130	6/11/18 7:47
Toluene-d8	102	70-130	6/11/18 7:47
4-Bromofluorobenzene	102	70-130	6/11/18 7:47

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Aniline	ND	0.35	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:37	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		66.9	30-130					6/11/18 16:37	
Phenol-d6		70.0	30-130					6/11/18 16:37	
Nitrobenzene-d5		64.0	30-130					6/11/18 16:37	
2-Fluorobiphenyl		56.3	30-130					6/11/18 16:37	
2,4,6-Tribromophenol		72.1	30-130					6/11/18 16:37	
p-Terphenyl-d14		75.5	30-130					6/11/18 16:37	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 09:42

Field Sample #: SB47

Sample ID: 18F0316-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Aldrin [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
alpha-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
beta-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
delta-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
gamma-BHC (Lindane) [1]	ND	0.0020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Chlordane [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
4,4'-DDD [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
4,4'-DDE [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
4,4'-DDT [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Dieldrin [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endosulfan I [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endosulfan II [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endosulfan sulfate [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endrin [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endrin aldehyde [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Endrin ketone [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Heptachlor [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Heptachlor epoxide [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Hexachlorobenzene [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Methoxychlor [1]	ND	0.049	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Toxaphene [1]	ND	0.099	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:15	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.6	30-150					6/12/18 10:15	
Decachlorobiphenyl [2]		99.0	30-150					6/12/18 10:15	
Tetrachloro-m-xylene [1]		91.1	30-150					6/12/18 10:15	
Tetrachloro-m-xylene [2]		111	30-150					6/12/18 10:15	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1221 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1232 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1242 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1248 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1254 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1260 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1262 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Aroclor-1268 [1]	ND	0.079	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:38	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					6/8/18 23:38	
Decachlorobiphenyl [2]		90.8	30-150					6/8/18 23:38	
Tetrachloro-m-xylene [1]		89.7	30-150					6/8/18 23:38	
Tetrachloro-m-xylene [2]		93.5	30-150					6/8/18 23:38	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 5/31/2018 09:42

Field Sample #: SB47

Sample ID: 18F0316-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
Dalapon [1]	ND	64	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 2:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		100	30-150					6/15/18 2:48	
2,4-Dichlorophenylacetic acid [2]		125	30-150					6/15/18 2:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	8.6	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 12:50	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		78.8	40-140					6/11/18 12:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Arsenic	7.7	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Barium	19	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Beryllium	0.22	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Chromium	10	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Lead	3.2	0.53	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:18	EJB
Nickel	8.2	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Vanadium	8.6	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW
Zinc	14	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:37	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB47

Sampled: 5/31/2018 09:42

Sample ID: 18F0316-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @24.7°C	5.8		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	2.5	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	96.7		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.5	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Benzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Bromobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Bromochloromethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Bromodichloromethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Bromoform	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Bromomethane	ND	0.099	mg/Kg dry	1	R-05	SW-846 8260C	6/12/18	6/12/18 18:55	MFF
2-Butanone (MEK)	ND	0.99	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
n-Butylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
sec-Butylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
tert-Butylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Carbon Disulfide	ND	0.50	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Carbon Tetrachloride	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Chlorobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Chlorodibromomethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Chloroethane	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Chloroform	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Chloromethane	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
2-Chlorotoluene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
4-Chlorotoluene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Dibromomethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2-Dichlorobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,3-Dichlorobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,4-Dichlorobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1-Dichloroethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2-Dichloroethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1-Dichloroethylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2-Dichloropropane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,3-Dichloropropane	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
2,2-Dichloropropane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1-Dichloropropene	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
cis-1,3-Dichloropropene	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
trans-1,3-Dichloropropene	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Diethyl Ether	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,4-Dioxane	ND	2.5	mg/Kg dry	1	V-16	SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Ethylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
2-Hexanone (MBK)	ND	0.50	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Methylene Chloride	ND	0.25	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Naphthalene	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
n-Propylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Styrene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Tetrachloroethylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Tetrahydrofuran	ND	0.20	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Toluene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1,1-Trichloroethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,1,2-Trichloroethane	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Trichloroethylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2,3-Trichloropropane	ND	0.099	mg/Kg dry	1	R-05	SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
Vinyl Chloride	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
m+p Xylene	ND	0.099	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF
o-Xylene	ND	0.050	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 18:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	6/12/18 18:55
Toluene-d8	98.6	70-130	6/12/18 18:55
4-Bromofluorobenzene	100	70-130	6/12/18 18:55

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 16:59	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		57.7	30-130					6/11/18 16:59	
Phenol-d6		60.9	30-130					6/11/18 16:59	
Nitrobenzene-d5		54.8	30-130					6/11/18 16:59	
2-Fluorobiphenyl		52.2	30-130					6/11/18 16:59	
2,4,6-Tribromophenol		64.8	30-130					6/11/18 16:59	
p-Terphenyl-d14		68.7	30-130					6/11/18 16:59	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 11:30

Field Sample #: SB45

Sample ID: 18F0316-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endosulfan II [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endosulfan sulfate [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endrin [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endrin aldehyde [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Endrin ketone [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 10:41	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.4	30-150					6/12/18 10:41	
Decachlorobiphenyl [2]		97.7	30-150					6/12/18 10:41	
Tetrachloro-m-xylene [1]		87.7	30-150					6/12/18 10:41	
Tetrachloro-m-xylene [2]		105	30-150					6/12/18 10:41	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/8/18 23:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.4	30-150					6/8/18 23:57	
Decachlorobiphenyl [2]		85.4	30-150					6/8/18 23:57	
Tetrachloro-m-xylene [1]		84.4	30-150					6/8/18 23:57	
Tetrachloro-m-xylene [2]		88.7	30-150					6/8/18 23:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 11:30

Field Sample #: SB45

Sample ID: 18F0316-06

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
Dinoseb [2]	ND	14	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 3:27	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		89.4	30-150					6/15/18 3:27	
2,4-Dichlorophenylacetic acid [2]		111	30-150					6/15/18 3:27	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	9.0	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 13:08	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		73.8	40-140					6/11/18 13:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 11:30

Field Sample #: SB45

Sample ID: 18F0316-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Arsenic	7.9	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Barium	16	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Chromium	8.7	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Lead	3.7	0.56	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:20	EJB
Nickel	6.7	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Vanadium	7.8	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW
Zinc	14	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:41	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB45

Sampled: 6/1/2018 11:30

Sample ID: 18F0316-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @23.6°C	5.9		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	2.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	92.4		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1.5	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Benzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Bromobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Bromochloromethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Bromodichloromethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Bromoform	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Bromomethane	ND	0.062	mg/Kg dry	1	R-05	SW-846 8260C	6/12/18	6/12/18 19:21	MFF
2-Butanone (MEK)	ND	0.62	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
n-Butylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
sec-Butylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
tert-Butylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Carbon Disulfide	ND	0.31	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Carbon Tetrachloride	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Chlorobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Chlorodibromomethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Chloroethane	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Chloroform	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Chloromethane	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
2-Chlorotoluene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
4-Chlorotoluene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.12	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2-Dibromoethane (EDB)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Dibromomethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2-Dichlorobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,3-Dichlorobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,4-Dichlorobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1-Dichloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2-Dichloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1-Dichloroethylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
cis-1,2-Dichloroethylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
trans-1,2-Dichloroethylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2-Dichloropropane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,3-Dichloropropane	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
2,2-Dichloropropane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1-Dichloropropene	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
cis-1,3-Dichloropropene	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
trans-1,3-Dichloropropene	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Diethyl Ether	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Diisopropyl Ether (DIPE)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,4-Dioxane	ND	1.5	mg/Kg dry	1	V-16	SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Ethylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 10:25

Field Sample #: SB18

Sample ID: 18F0316-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
2-Hexanone (MBK)	ND	0.31	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Isopropylbenzene (Cumene)	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Methylene Chloride	ND	0.15	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.31	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Naphthalene	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
n-Propylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Styrene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1,1,2-Tetrachloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Tetrachloroethylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Tetrahydrofuran	ND	0.12	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Toluene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2,3-Trichlorobenzene	ND	0.12	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2,4-Trichlorobenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1,1-Trichloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,1,2-Trichloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Trichloroethylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2,3-Trichloropropane	ND	0.062	mg/Kg dry	1	R-05	SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,2,4-Trimethylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
1,3,5-Trimethylbenzene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
Vinyl Chloride	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
m+p Xylene	ND	0.062	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF
o-Xylene	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/12/18	6/12/18 19:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	98.6	70-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:21	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		55.2	30-130					6/11/18 17:21	
Phenol-d6		56.8	30-130					6/11/18 17:21	
Nitrobenzene-d5		51.7	30-130					6/11/18 17:21	
2-Fluorobiphenyl		46.4	30-130					6/11/18 17:21	
2,4,6-Tribromophenol		55.3	30-130					6/11/18 17:21	
p-Terphenyl-d14		59.3	30-130					6/11/18 17:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 10:25

Field Sample #: SB18

Sample ID: 18F0316-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Aldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
alpha-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
beta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
delta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
4,4'-DDD [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endosulfan I [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endosulfan II [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endosulfan sulfate [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endrin [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endrin aldehyde [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Endrin ketone [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Heptachlor [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Heptachlor epoxide [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Methoxychlor [1]	ND	0.051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:08	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.8	30-150					6/12/18 11:08	
Decachlorobiphenyl [2]		90.1	30-150					6/12/18 11:08	
Tetrachloro-m-xylene [1]		81.1	30-150					6/12/18 11:08	
Tetrachloro-m-xylene [2]		100	30-150					6/12/18 11:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:15	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.5	30-150					6/9/18 0:15	
Decachlorobiphenyl [2]		78.4	30-150					6/9/18 0:15	
Tetrachloro-m-xylene [1]		75.6	30-150					6/9/18 0:15	
Tetrachloro-m-xylene [2]		78.9	30-150					6/9/18 0:15	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 10:25

Field Sample #: SB18

Sample ID: 18F0316-07

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:07	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		82.8	30-150					6/15/18 4:07	
2,4-Dichlorophenylacetic acid [2]		104	30-150					6/15/18 4:07	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.9	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 14:33	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		52.1	40-140					6/11/18 14:33	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 10:25

Field Sample #: SB18

Sample ID: 18F0316-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Arsenic	3.6	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Barium	34	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Beryllium	0.21	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Chromium	16	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Lead	3.9	0.56	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:21	EJB
Nickel	6.6	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Vanadium	19	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW
Zinc	16	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:46	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB18

Sampled: 6/1/2018 10:25

Sample ID: 18F0316-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @23.4°C	5.6		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	2.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	93.6		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 8:14	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	6/11/18 8:14
Toluene-d8	101	70-130	6/11/18 8:14
4-Bromofluorobenzene	99.2	70-130	6/11/18 8:14

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 17:43	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		43.6	30-130					6/11/18 17:43	
Phenol-d6		44.3	30-130					6/11/18 17:43	
Nitrobenzene-d5		41.2	30-130					6/11/18 17:43	
2-Fluorobiphenyl		35.3	30-130					6/11/18 17:43	
2,4,6-Tribromophenol		41.4	30-130					6/11/18 17:43	
p-Terphenyl-d14		45.6	30-130					6/11/18 17:43	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endosulfan II [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endosulfan sulfate [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endrin [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endrin aldehyde [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Endrin ketone [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 11:35	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.8	30-150					6/12/18 11:35	
Decachlorobiphenyl [2]		93.6	30-150					6/12/18 11:35	
Tetrachloro-m-xylene [1]		86.3	30-150					6/12/18 11:35	
Tetrachloro-m-xylene [2]		103	30-150					6/12/18 11:35	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:33	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.3	30-150					6/9/18 0:33	
Decachlorobiphenyl [2]		85.9	30-150					6/9/18 0:33	
Tetrachloro-m-xylene [1]		83.3	30-150					6/9/18 0:33	
Tetrachloro-m-xylene [2]		87.6	30-150					6/9/18 0:33	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 09:53

Field Sample #: SB2

Sample ID: 18F0316-08

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 4:46	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		105	30-150					6/15/18 4:46	
2,4-Dichlorophenylacetic acid [2]		130	30-150					6/15/18 4:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.8	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 14:51	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	41.6		40-140					6/11/18 14:51	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 09:53

Field Sample #: SB2

Sample ID: 18F0316-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Arsenic	7.2	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Barium	18	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Beryllium	0.22	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Chromium	9.0	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Lead	3.2	0.53	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:27	EJB
Nickel	5.8	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Vanadium	9.4	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW
Zinc	10	0.70	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:50	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB2

Sampled: 6/5/2018 09:53

Sample ID: 18F0316-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @23.9°C	6.9		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	21	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	93.9		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 11:15

Field Sample #: MP10

Sample ID: 18F0316-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/20/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 11:15

Field Sample #: MP10

Sample ID: 18F0316-09

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/28/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP3

Sampled: 6/5/2018 13:00

Sample ID: 18F0316-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP3

Sampled: 6/5/2018 13:00

Sample ID: 18F0316-10

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/28/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP6

Sampled: 6/4/2018 10:00

Sample ID: 18F0316-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/22/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP6

Sampled: 6/4/2018 10:00

Sample ID: 18F0316-11

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/27/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 8:41	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Chlorodibromomethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Chloroethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2-Dibromoethane (EDB)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0076	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Diethyl Ether	ND	0.0076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Diisopropyl Ether (DIPE)	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,4-Dioxane	ND	0.076	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Methylene Chloride	ND	0.0076	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 8:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	6/11/18 8:41
Toluene-d8	102	70-130	6/11/18 8:41
4-Bromofluorobenzene	99.1	70-130	6/11/18 8:41

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:04	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	64.7	30-130	
Phenol-d6	66.7	30-130	
Nitrobenzene-d5	63.5	30-130	
2-Fluorobiphenyl	58.3	30-130	
2,4,6-Tribromophenol	70.2	30-130	
p-Terphenyl-d14	71.9	30-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 11:40

Field Sample #: MP24

Sample ID: 18F0316-12

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Aldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
alpha-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
beta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
delta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
4,4'-DDD [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endosulfan I [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endosulfan II [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endosulfan sulfate [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endrin [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endrin aldehyde [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Endrin ketone [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Heptachlor [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Heptachlor epoxide [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Methoxychlor [1]	ND	0.051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:02	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.7	30-150					6/12/18 12:02	
Decachlorobiphenyl [2]		75.5	30-150					6/12/18 12:02	
Tetrachloro-m-xylene [1]		71.5	30-150					6/12/18 12:02	
Tetrachloro-m-xylene [2]		83.2	30-150					6/12/18 12:02	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 0:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					6/9/18 0:52	
Decachlorobiphenyl [2]		82.5	30-150					6/9/18 0:52	
Tetrachloro-m-xylene [1]		82.8	30-150					6/9/18 0:52	
Tetrachloro-m-xylene [2]		86.9	30-150					6/9/18 0:52	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 11:40

Field Sample #: MP24

Sample ID: 18F0316-12

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
Dinoseb [2]	ND	14	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 5:25	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		98.9	30-150					6/15/18 5:25	
2,4-Dichlorophenylacetic acid [2]		127	30-150					6/15/18 5:25	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	15	9.0	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 15:08	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		61.1	40-140					6/11/18 15:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Arsenic	12	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Barium	44	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Beryllium	0.32	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Cadmium	0.26	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Chromium	19	0.38	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Lead	7.8	0.56	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:29	EJB
Nickel	13	0.38	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Silver	0.43	0.38	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Vanadium	18	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW
Zinc	19	0.75	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 11:55	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @18.8°C	5.2		pH Units	1	H-03	SW-846 9045C	6/9/18	6/9/18 13:10	IS
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	6.7	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	91.7		% Wt	1		SM 2540G	6/11/18	6/11/18 17:57	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: MP24

Sampled: 6/4/2018 11:40

Sample ID: 18F0316-12

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttached		Attached	1		Attached		6/27/18 0:00	GEO
See Attached Report Pages	SeeAttached		Attached	1		Attached		6/19/18 0:00	GEO

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 9:09	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Chloroethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Diethyl Ether	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Diisopropyl Ether (DIPE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,4-Dioxane	ND	0.072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Methylene Chloride	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.9	70-130	6/11/18 9:09
Toluene-d8	101	70-130	6/11/18 9:09
4-Bromofluorobenzene	97.7	70-130	6/11/18 9:09

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Fluoranthene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Pyrene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:26	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		55.5	30-130					6/11/18 18:26	
Phenol-d6		57.2	30-130					6/11/18 18:26	
Nitrobenzene-d5		52.2	30-130					6/11/18 18:26	
2-Fluorobiphenyl		47.1	30-130					6/11/18 18:26	
2,4,6-Tribromophenol		54.4	30-130					6/11/18 18:26	
p-Terphenyl-d14		56.0	30-130					6/11/18 18:26	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Aldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
alpha-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
beta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
delta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
gamma-BHC (Lindane) [1]	ND	0.0020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Chlordane [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
4,4'-DDD [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endosulfan I [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endosulfan II [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endosulfan sulfate [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endrin [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endrin aldehyde [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Endrin ketone [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Heptachlor [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Heptachlor epoxide [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Hexachlorobenzene [1]	ND	0.0061	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Methoxychlor [1]	ND	0.051	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.7	30-150					6/12/18 12:29	
Decachlorobiphenyl [2]		85.1	30-150					6/12/18 12:29	
Tetrachloro-m-xylene [1]		80.3	30-150					6/12/18 12:29	
Tetrachloro-m-xylene [2]		93.7	30-150					6/12/18 12:29	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:10	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.5	30-150					6/9/18 1:10	
Decachlorobiphenyl [2]		76.3	30-150					6/9/18 1:10	
Tetrachloro-m-xylene [1]		75.4	30-150					6/9/18 1:10	
Tetrachloro-m-xylene [2]		79.3	30-150					6/9/18 1:10	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 11:30

Field Sample #: SB17

Sample ID: 18F0316-13

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
2,4-DB [2]	ND	27	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 9:57	TG
2,4,5-TP (Silvex) [2]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
2,4,5-T [2]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
Dichloroprop [2]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
Dinoseb [2]	ND	13	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 9:57	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 9:57	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		109	30-150					6/15/18 9:57	
2,4-Dichlorophenylacetic acid [2]		127	30-150					6/15/18 9:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	23	8.9	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 15:26	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.7	40-140					6/11/18 15:26	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 11:30

Field Sample #: SB17

Sample ID: 18F0316-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Arsenic	6.0	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Barium	14	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Beryllium	0.23	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Chromium	9.1	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Lead	4.1	0.53	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:30	EJB
Nickel	7.5	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Vanadium	8.7	0.71	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW
Zinc	13	0.71	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:00	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB17

Sampled: 6/4/2018 11:30

Sample ID: 18F0316-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @24.4°C	5.2		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	2.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	92.9		% Wt	1		SM 2540G	6/11/18	6/11/18 17:58	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 9:36	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 9:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.3	70-130	6/11/18 9:36
Toluene-d8	101	70-130	6/11/18 9:36
4-Bromofluorobenzene	99.4	70-130	6/11/18 9:36

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 18:48	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		72.7	30-130					6/11/18 18:48	
Phenol-d6		73.2	30-130					6/11/18 18:48	
Nitrobenzene-d5		68.8	30-130					6/11/18 18:48	
2-Fluorobiphenyl		61.4	30-130					6/11/18 18:48	
2,4,6-Tribromophenol		72.6	30-130					6/11/18 18:48	
p-Terphenyl-d14		74.1	30-130					6/11/18 18:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 15:00

Field Sample #: SB43

Sample ID: 18F0316-14

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
4,4'-DDD [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endosulfan II [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endosulfan sulfate [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endrin [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endrin aldehyde [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Endrin ketone [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 12:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.2	30-150					6/12/18 12:56	
Decachlorobiphenyl [2]		89.7	30-150					6/12/18 12:56	
Tetrachloro-m-xylene [1]		84.4	30-150					6/12/18 12:56	
Tetrachloro-m-xylene [2]		103	30-150					6/12/18 12:56	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:28	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.3	30-150					6/9/18 1:28	
Decachlorobiphenyl [2]		83.1	30-150					6/9/18 1:28	
Tetrachloro-m-xylene [1]		84.3	30-150					6/9/18 1:28	
Tetrachloro-m-xylene [2]		88.7	30-150					6/9/18 1:28	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 15:00

Field Sample #: SB43

Sample ID: 18F0316-14

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
2,4-DB [2]	ND	28	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 10:36	TG
2,4,5-TP (Silvex) [2]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
2,4,5-T [2]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
Dalapon [1]	ND	70	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
Dichloroprop [2]	ND	28	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
Dinoseb [2]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 10:36	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 10:36	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		94.8	30-150					6/15/18 10:36	
2,4-Dichlorophenylacetic acid [2]		118	30-150					6/15/18 10:36	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	9.2	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 11:21	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		65.8	40-140					6/11/18 11:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/4/2018 15:00

Field Sample #: SB43

Sample ID: 18F0316-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Arsenic	6.4	2.0	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Barium	15	2.0	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Chromium	8.4	0.39	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Lead	3.0	0.59	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:32	EJB
Nickel	6.9	0.39	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Vanadium	7.4	0.78	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW
Zinc	12	0.78	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:04	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB43

Sampled: 6/4/2018 15:00

Sample ID: 18F0316-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @23.5°C	5.3		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	2.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	88.7		% Wt	1		SM 2540G	6/11/18	6/11/18 17:58	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Bromomethane	ND	0.0079	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 10:03	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Chlorodibromomethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Chloroethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Chloromethane	ND	0.0079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0079	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,3-Dichloropropane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
cis-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
trans-1,3-Dichloropropene	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Diethyl Ether	ND	0.0079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Diisopropyl Ether (DIPE)	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,4-Dioxane	ND	0.079	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Methylene Chloride	ND	0.0079	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Tetrahydrofuran	ND	0.0079	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
Vinyl Chloride	ND	0.0079	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	6/11/18 10:03
Toluene-d8	102	70-130	6/11/18 10:03
4-Bromofluorobenzene	99.1	70-130	6/11/18 10:03

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Aniline	ND	0.40	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Butylbenzylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
4-Chloroaniline	ND	0.78	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Dibenzofuran	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Dimethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4-Dinitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Di-n-octylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
4-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Pyridine	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:09	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.0	30-130					6/11/18 19:09	
Phenol-d6		61.9	30-130					6/11/18 19:09	
Nitrobenzene-d5		54.9	30-130					6/11/18 19:09	
2-Fluorobiphenyl		50.9	30-130					6/11/18 19:09	
2,4,6-Tribromophenol		60.1	30-130					6/11/18 19:09	
p-Terphenyl-d14		62.0	30-130					6/11/18 19:09	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 12:14

Field Sample #: SB3

Sample ID: 18F0316-15

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endosulfan sulfate [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Endrin ketone [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:23	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.0	30-150					6/12/18 13:23	
Decachlorobiphenyl [2]		81.2	30-150					6/12/18 13:23	
Tetrachloro-m-xylene [1]		91.2	30-150					6/12/18 13:23	
Tetrachloro-m-xylene [2]		106	30-150					6/12/18 13:23	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 1:46	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.9	30-150					6/9/18 1:46	
Decachlorobiphenyl [2]		85.2	30-150					6/9/18 1:46	
Tetrachloro-m-xylene [1]		85.3	30-150					6/9/18 1:46	
Tetrachloro-m-xylene [2]		89.3	30-150					6/9/18 1:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	30	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
2,4-DB [2]	ND	30	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 11:14	TG
2,4,5-TP (Silvex) [2]	ND	3.0	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
2,4,5-T [2]	ND	3.0	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
Dichloroprop [2]	ND	30	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
Dinoseb [2]	ND	15	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 11:14	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:14	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	107		30-150				6/15/18 11:14		
2,4-Dichlorophenylacetic acid [2]	177 *		30-150		S-02, S-12		6/15/18 11:14		

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/5/2018 12:14

Field Sample #: SB3

Sample ID: 18F0316-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	28	9.8	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 16:37	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		71.7	40-140					6/11/18 16:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Arsenic	5.0	2.1	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Barium	22	2.1	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Beryllium	0.25	0.21	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Chromium	12	0.41	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Lead	6.5	0.62	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:33	EJB
Nickel	10	0.41	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Selenium	ND	4.1	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Silver	ND	0.41	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Vanadium	13	0.82	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW
Zinc	17	0.82	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:09	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB3

Sampled: 6/5/2018 12:14

Sample ID: 18F0316-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @24.3°C	5.7		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/11/18	6/13/18 17:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/12/18	6/13/18 17:20	DJM
Specific conductance	13	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	82.7		% Wt	1		SM 2540G	6/11/18	6/11/18 17:59	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Bromomethane	ND	0.0080	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 10:31	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Chlorodibromomethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Chloroethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Chloromethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2-Dibromoethane (EDB)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0080	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,3-Dichloropropane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
cis-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
trans-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Diethyl Ether	ND	0.0080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Diisopropyl Ether (DIPE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,4-Dioxane	ND	0.080	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Methylene Chloride	ND	0.0080	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Tetrahydrofuran	ND	0.0080	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
Vinyl Chloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.7	70-130	6/11/18 10:31
Toluene-d8	99.9	70-130	6/11/18 10:31
4-Bromofluorobenzene	99.8	70-130	6/11/18 10:31

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:31	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		55.2	30-130					6/11/18 19:31	
Phenol-d6		57.2	30-130					6/11/18 19:31	
Nitrobenzene-d5		51.5	30-130					6/11/18 19:31	
2-Fluorobiphenyl		47.3	30-130					6/11/18 19:31	
2,4,6-Tribromophenol		56.4	30-130					6/11/18 19:31	
p-Terphenyl-d14		61.0	30-130					6/11/18 19:31	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endosulfan II [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endosulfan sulfate [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endrin [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endrin aldehyde [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Endrin ketone [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Hexachlorobenzene [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 13:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.7	30-150					6/12/18 13:50	
Decachlorobiphenyl [2]		71.2	30-150					6/12/18 13:50	
Tetrachloro-m-xylene [1]		69.2	30-150					6/12/18 13:50	
Tetrachloro-m-xylene [2]		84.0	30-150					6/12/18 13:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 2:05	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.5	30-150					6/9/18 2:05	
Decachlorobiphenyl [2]		75.9	30-150					6/9/18 2:05	
Tetrachloro-m-xylene [1]		73.2	30-150					6/9/18 2:05	
Tetrachloro-m-xylene [2]		77.3	30-150					6/9/18 2:05	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	28	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
2,4-DB [2]	ND	28	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 11:54	TG
2,4,5-TP (Silvex) [2]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
2,4,5-T [2]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
Dalapon [1]	ND	69	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
Dichloroprop [2]	ND	28	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
Dinoseb [2]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 11:54	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 11:54	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		113	30-150					6/15/18 11:54	
2,4-Dichlorophenylacetic acid [2]		141	30-150					6/15/18 11:54	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	16	9.2	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 15:44	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		54.3	40-140					6/11/18 15:44	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Arsenic	6.8	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Barium	24	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Beryllium	0.23	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Chromium	12	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Lead	13	0.56	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:35	EJB
Nickel	14	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Vanadium	11	0.74	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW
Zinc	66	0.74	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:13	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB/MW24

Sampled: 6/5/2018 11:35

Sample ID: 18F0316-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/11/18	6/11/18 15:00	LED
pH @24.6°C	5.9		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/11/18	6/13/18 17:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/12/18	6/13/18 17:20	DJM
Specific conductance	2.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	89.8		% Wt	1		SM 2540G	6/11/18	6/11/18 18:00	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	R-05, V-34	SW-846 8260C	6/11/18	6/11/18 10:58	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Chloroethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Diethyl Ether	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Diisopropyl Ether (DIPE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,4-Dioxane	ND	0.072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Methylene Chloride	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/11/18	6/11/18 10:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.2	70-130	6/11/18 10:58
Toluene-d8	99.8	70-130	6/11/18 10:58
4-Bromofluorobenzene	99.6	70-130	6/11/18 10:58

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-35	SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 13:25

Field Sample #: SB16

Sample ID: 18F0316-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	6/8/18	6/11/18 19:53	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		61.0	30-130					6/11/18 19:53	
Phenol-d6		63.2	30-130					6/11/18 19:53	
Nitrobenzene-d5		58.0	30-130					6/11/18 19:53	
2-Fluorobiphenyl		52.7	30-130					6/11/18 19:53	
2,4,6-Tribromophenol		64.9	30-130					6/11/18 19:53	
p-Terphenyl-d14		66.7	30-130					6/11/18 19:53	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 13:25

Field Sample #: SB16

Sample ID: 18F0316-17

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Aldrin [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
alpha-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
beta-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
delta-BHC [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
gamma-BHC (Lindane) [1]	ND	0.0020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Chlordane [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
4,4'-DDD [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
4,4'-DDE [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
4,4'-DDT [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Dieldrin [1]	ND	0.0040	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endosulfan I [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endosulfan II [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endosulfan sulfate [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endrin [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endrin aldehyde [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Endrin ketone [1]	ND	0.0081	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Heptachlor [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Heptachlor epoxide [1]	ND	0.0050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Hexachlorobenzene [1]	ND	0.0060	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Methoxychlor [1]	ND	0.050	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	6/7/18	6/12/18 14:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.3	30-150					6/12/18 14:17	
Decachlorobiphenyl [2]		88.0	30-150					6/12/18 14:17	
Tetrachloro-m-xylene [1]		82.1	30-150					6/12/18 14:17	
Tetrachloro-m-xylene [2]		96.6	30-150					6/12/18 14:17	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	6/7/18	6/9/18 3:31	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.7	30-150					6/9/18 3:31	
Decachlorobiphenyl [2]		85.6	30-150					6/9/18 3:31	
Tetrachloro-m-xylene [1]		80.9	30-150					6/9/18 3:31	
Tetrachloro-m-xylene [2]		85.1	30-150					6/9/18 3:31	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/1/2018 13:25

Field Sample #: SB16

Sample ID: 18F0316-17

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [2]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
2,4-DB [2]	ND	27	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 12:33	TG
2,4,5-TP (Silvex) [2]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
2,4,5-T [2]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
Dichloroprop [2]	ND	27	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
Dinoseb [2]	ND	14	µg/kg dry	1	V-20	SW-846 8151A	6/8/18	6/15/18 12:33	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/8/18	6/15/18 12:33	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		107	30-150					6/15/18 12:33	
2,4-Dichlorophenylacetic acid [2]		137	30-150					6/15/18 12:33	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	9.0	mg/Kg dry	1		SW-846 8100 Modified	6/8/18	6/11/18 16:02	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		58.6	40-140					6/11/18 16:02	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Arsenic	5.5	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Barium	18	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Beryllium	0.28	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Chromium	9.0	0.36	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Lead	3.7	0.54	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/20/18 9:37	EJB
Nickel	7.1	0.36	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Vanadium	8.5	0.73	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW
Zinc	13	0.73	mg/Kg dry	1		SW-846 6010C-D	6/19/18	6/20/18 12:18	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: SB16

Sampled: 6/1/2018 13:25

Sample ID: 18F0316-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/12/18	6/12/18 15:50	LED
pH @22.9°C	5.3		pH Units	1	H-03	SW-846 9045C	6/7/18	6/7/18 20:00	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/11/18	6/13/18 17:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/12/18	6/13/18 17:20	DJM
Specific conductance	2.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/19/18	6/19/18 15:30	EC
% Solids	92.0		% Wt	1		SM 2540G	6/11/18	6/11/18 18:00	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B8

Sampled: 6/6/2018 09:10

Sample ID: 18F0316-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttached		Attached	1		SM D 422-63		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B8

Sampled: 6/6/2018 09:10

Sample ID: 18F0316-18

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/28/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B22

Sampled: 6/6/2018 09:15

Sample ID: 18F0316-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	SeeAttachec		Attached	1		SM D 422-63		6/19/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B22

Sampled: 6/6/2018 09:15

Sample ID: 18F0316-19

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/19/18 0:00	GEO
See Attached Report Pages	SeeAttachec		Attached	1		Attached		6/27/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Field Sample #: B23

Sampled: 6/6/2018 10:20

Sample ID: 18F0316-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	See Attached		Attached	1		SM D 422-63		6/27/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0316

Date Received: 6/7/2018

Sampled: 6/6/2018 10:20

Field Sample #: B23

Sample ID: 18F0316-20

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	SeeAttachedc		Attached	1		Attached		6/19/18 0:00	GEO
See Attached Report Pages	SeeAttachedc		Attached	1		Attached		6/27/18 0:00	GEO

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18F0316-04 [SB19]	B205377	06/11/18
18F0316-05 [SB47]	B205377	06/11/18
18F0316-06 [SB45]	B205377	06/11/18
18F0316-07 [SB18]	B205377	06/11/18
18F0316-08 [SB2]	B205377	06/11/18
18F0316-12 [MP24]	B205377	06/11/18
18F0316-13 [SB17]	B205377	06/11/18
18F0316-14 [SB43]	B205377	06/11/18
18F0316-15 [SB3]	B205377	06/11/18
18F0316-16 [SB/MW24]	B205377	06/11/18
18F0316-17 [SB16]	B205377	06/11/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-04 [SB19]	B205963	1.00	06/18/18
18F0316-05 [SB47]	B205963	1.00	06/18/18
18F0316-06 [SB45]	B205963	1.00	06/18/18
18F0316-07 [SB18]	B205963	1.00	06/18/18
18F0316-08 [SB2]	B205963	1.00	06/18/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-12 [MP24]	B206094	1.00	06/19/18
18F0316-13 [SB17]	B206094	1.00	06/19/18
18F0316-14 [SB43]	B206094	1.00	06/19/18
18F0316-15 [SB3]	B206094	1.00	06/19/18
18F0316-16 [SB/MW24]	B206094	1.00	06/19/18
18F0316-17 [SB16]	B206094	1.00	06/19/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-04 [SB19]	B205466	50.0	06/11/18
18F0316-05 [SB47]	B205466	50.0	06/11/18
18F0316-06 [SB45]	B205466	50.0	06/11/18
18F0316-07 [SB18]	B205466	50.0	06/11/18
18F0316-08 [SB2]	B205466	50.0	06/11/18
18F0316-12 [MP24]	B205466	50.0	06/11/18
18F0316-13 [SB17]	B205466	50.0	06/11/18
18F0316-14 [SB43]	B205466	50.0	06/11/18
18F0316-15 [SB3]	B205466	50.0	06/11/18
18F0316-16 [SB/MW24]	B205466	50.0	06/11/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-17 [SB16]	B205553	50.0	06/12/18

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B206088	1.51	50.0	06/19/18
18F0316-05 [SB47]	B206088	1.47	50.0	06/19/18
18F0316-06 [SB45]	B206088	1.44	50.0	06/19/18
18F0316-07 [SB18]	B206088	1.43	50.0	06/19/18
18F0316-08 [SB2]	B206088	1.51	50.0	06/19/18
18F0316-12 [MP24]	B206088	1.45	50.0	06/19/18
18F0316-13 [SB17]	B206088	1.52	50.0	06/19/18
18F0316-14 [SB43]	B206088	1.44	50.0	06/19/18
18F0316-15 [SB3]	B206088	1.47	50.0	06/19/18
18F0316-16 [SB/MW24]	B206088	1.50	50.0	06/19/18
18F0316-17 [SB16]	B206088	1.50	50.0	06/19/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B206091	0.610	50.0	06/19/18
18F0316-05 [SB47]	B206091	0.620	50.0	06/19/18
18F0316-06 [SB45]	B206091	0.603	50.0	06/19/18
18F0316-07 [SB18]	B206091	0.600	50.0	06/19/18
18F0316-08 [SB2]	B206091	0.609	50.0	06/19/18
18F0316-12 [MP24]	B206091	0.632	50.0	06/19/18
18F0316-13 [SB17]	B206091	0.593	50.0	06/19/18
18F0316-14 [SB43]	B206091	0.600	50.0	06/19/18
18F0316-15 [SB3]	B206091	0.620	50.0	06/19/18
18F0316-16 [SB/MW24]	B206091	0.578	50.0	06/19/18
18F0316-17 [SB16]	B206091	0.616	50.0	06/19/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205229	10.2	10.0	06/07/18
18F0316-05 [SB47]	B205229	10.5	10.0	06/07/18
18F0316-06 [SB45]	B205229	10.3	10.0	06/07/18
18F0316-07 [SB18]	B205229	10.4	10.0	06/07/18
18F0316-08 [SB2]	B205229	10.1	10.0	06/07/18
18F0316-12 [MP24]	B205229	10.6	10.0	06/07/18
18F0316-13 [SB17]	B205229	10.6	10.0	06/07/18
18F0316-14 [SB43]	B205229	10.2	10.0	06/07/18
18F0316-15 [SB3]	B205229	10.6	10.0	06/07/18
18F0316-16 [SB/MW24]	B205229	10.5	10.0	06/07/18
18F0316-17 [SB16]	B205229	10.8	10.0	06/07/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205228	10.2	10.0	06/07/18
18F0316-05 [SB47]	B205228	10.5	10.0	06/07/18
18F0316-06 [SB45]	B205228	10.3	10.0	06/07/18
18F0316-07 [SB18]	B205228	10.4	10.0	06/07/18
18F0316-08 [SB2]	B205228	10.1	10.0	06/07/18
18F0316-12 [MP24]	B205228	10.6	10.0	06/07/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-13 [SB17]	B205228	10.6	10.0	06/07/18
18F0316-14 [SB43]	B205228	10.2	10.0	06/07/18
18F0316-15 [SB3]	B205228	10.6	10.0	06/07/18
18F0316-16 [SB/MW24]	B205228	10.5	10.0	06/07/18
18F0316-17 [SB16]	B205228	10.8	10.0	06/07/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205243	30.4	1.00	06/08/18
18F0316-05 [SB47]	B205243	30.0	1.00	06/08/18
18F0316-06 [SB45]	B205243	30.1	1.00	06/08/18
18F0316-07 [SB18]	B205243	30.0	1.00	06/08/18
18F0316-08 [SB2]	B205243	30.1	1.00	06/08/18
18F0316-12 [MP24]	B205243	30.4	1.00	06/08/18
18F0316-13 [SB17]	B205243	30.4	1.00	06/08/18
18F0316-14 [SB43]	B205243	30.5	1.00	06/08/18
18F0316-15 [SB3]	B205243	30.8	1.00	06/08/18
18F0316-16 [SB/MW24]	B205243	30.2	1.00	06/08/18
18F0316-17 [SB16]	B205243	30.1	1.00	06/08/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205237	20.1	5.00	06/08/18
18F0316-05 [SB47]	B205237	20.2	5.00	06/08/18
18F0316-06 [SB45]	B205237	20.0	5.00	06/08/18
18F0316-07 [SB18]	B205237	20.1	5.00	06/08/18
18F0316-08 [SB2]	B205237	20.0	5.00	06/08/18
18F0316-12 [MP24]	B205237	20.0	5.00	06/08/18
18F0316-13 [SB17]	B205237	20.0	5.00	06/08/18
18F0316-14 [SB43]	B205237	20.0	5.00	06/08/18
18F0316-15 [SB3]	B205237	20.1	5.00	06/08/18
18F0316-16 [SB/MW24]	B205237	20.1	5.00	06/08/18
18F0316-17 [SB16]	B205237	20.1	5.00	06/08/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205426	4.50	10.0	06/11/18
18F0316-05 [SB47]	B205426	11.3	10.0	06/11/18
18F0316-08 [SB2]	B205426	6.60	10.0	06/11/18
18F0316-12 [MP24]	B205426	7.21	10.0	06/11/18
18F0316-13 [SB17]	B205426	7.46	10.0	06/11/18
18F0316-14 [SB43]	B205426	6.96	10.0	06/11/18
18F0316-15 [SB3]	B205426	7.65	10.0	06/11/18
18F0316-16 [SB/MW24]	B205426	6.93	10.0	06/11/18
18F0316-17 [SB16]	B205426	7.50	10.0	06/11/18

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18F0316-06 [SB45]	B205443	5.94	5.45	1	50	06/12/18
18F0316-07 [SB18]	B205443	9.75	5.62	1	50	06/12/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B205242	30.4	1.00	06/08/18
18F0316-05 [SB47]	B205242	30.0	1.00	06/08/18
18F0316-06 [SB45]	B205242	30.1	1.00	06/08/18
18F0316-07 [SB18]	B205242	30.0	1.00	06/08/18
18F0316-08 [SB2]	B205242	30.1	1.00	06/08/18
18F0316-12 [MP24]	B205242	30.4	1.00	06/08/18
18F0316-13 [SB17]	B205242	30.4	1.00	06/08/18
18F0316-14 [SB43]	B205242	30.5	1.00	06/08/18
18F0316-15 [SB3]	B205242	30.8	1.00	06/08/18
18F0316-16 [SB/MW24]	B205242	30.2	1.00	06/08/18
18F0316-17 [SB16]	B205242	30.1	1.00	06/08/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-15 [SB3]	B205401	25.2	250	06/11/18
18F0316-16 [SB/MW24]	B205401	25.3	250	06/11/18
18F0316-17 [SB16]	B205401	25.4	250	06/11/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B206096	25.3	250	06/19/18
18F0316-05 [SB47]	B206096	25.3	250	06/19/18
18F0316-06 [SB45]	B206096	25.4	250	06/19/18
18F0316-07 [SB18]	B206096	25.8	250	06/19/18
18F0316-08 [SB2]	B206096	25.4	250	06/19/18
18F0316-12 [MP24]	B206096	25.2	250	06/19/18
18F0316-13 [SB17]	B206096	26.0	250	06/19/18
18F0316-14 [SB43]	B206096	25.6	250	06/19/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-15 [SB3]	B205488	25.2	250	06/12/18
18F0316-16 [SB/MW24]	B205488	25.3	250	06/12/18
18F0316-17 [SB16]	B205488	25.4	250	06/12/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-04 [SB19]	B206097	25.3	250	06/19/18
18F0316-05 [SB47]	B206097	25.3	250	06/19/18

Sample Extraction Data

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0316-06 [SB45]	B206097	25.4	250	06/19/18
18F0316-07 [SB18]	B206097	25.8	250	06/19/18
18F0316-08 [SB2]	B206097	25.4	250	06/19/18
18F0316-12 [MP24]	B206097	25.2	250	06/19/18
18F0316-13 [SB17]	B206097	26.0	250	06/19/18
18F0316-14 [SB43]	B206097	25.6	250	06/19/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-04 [SB19]	B205232	20.0	06/07/18
18F0316-05 [SB47]	B205232	20.0	06/07/18
18F0316-06 [SB45]	B205232	20.0	06/07/18
18F0316-07 [SB18]	B205232	20.0	06/07/18
18F0316-08 [SB2]	B205232	20.0	06/07/18
18F0316-13 [SB17]	B205232	20.0	06/07/18
18F0316-14 [SB43]	B205232	20.0	06/07/18
18F0316-15 [SB3]	B205232	20.0	06/07/18
18F0316-16 [SB/MW24]	B205232	20.0	06/07/18
18F0316-17 [SB16]	B205232	20.0	06/07/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0316-12 [MP24]	B205335	20.0	06/09/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205426 - SW-846 5035

Blank (B205426-BLK1)

Prepared & Analyzed: 06/11/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34, R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							V-16
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205426 - SW-846 5035

Blank (B205426-BLK1)

Prepared & Analyzed: 06/11/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0516		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.6	70-130			

LCS (B205426-BS1)

Prepared & Analyzed: 06/11/18

Acetone	0.252	0.10	mg/Kg wet	0.200		126	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0183	0.0010	mg/Kg wet	0.0200		91.4	70-130			
Benzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
Bromobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
Bromochloromethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromodichloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Bromoform	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Bromomethane	0.0118	0.010	mg/Kg wet	0.0200		58.9	40-160			L-14, R-05, V-34 †
2-Butanone (MEK)	0.232	0.040	mg/Kg wet	0.200		116	40-160			†
n-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
tert-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0186	0.0010	mg/Kg wet	0.0200		92.8	70-130			
Carbon Disulfide	0.0213	0.0060	mg/Kg wet	0.0200		107	70-130			
Carbon Tetrachloride	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130			
Chloroethane	0.0223	0.010	mg/Kg wet	0.0200		111	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.6	70-130			
Chloromethane	0.0187	0.010	mg/Kg wet	0.0200		93.7	40-160			†
2-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
4-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
1,2-Dibromoethane (EDB)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205426 - SW-846 5035										
LCS (B205426-BS1)										
Prepared & Analyzed: 06/11/18										
Dichlorodifluoromethane (Freon 12)	0.0146	0.010	mg/Kg wet	0.0200		72.8	40-160			V-34 †
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
1,1-Dichloroethylene	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130			
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
trans-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichloropropane	0.0186	0.0010	mg/Kg wet	0.0200		93.0	70-130			
2,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
1,1-Dichloropropene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
cis-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		89.8	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130			
Diethyl Ether	0.0201	0.010	mg/Kg wet	0.0200		100	70-130			
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.4	70-130			
1,4-Dioxane	0.171	0.10	mg/Kg wet	0.200		85.5	40-160			V-16 †
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
Hexachlorobutadiene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130			
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	40-160			†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		94.1	70-130			
Methylene Chloride	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130			V-16, V-20
4-Methyl-2-pentanone (MIBK)	0.225	0.020	mg/Kg wet	0.200		113	40-160			†
Naphthalene	0.0197	0.0040	mg/Kg wet	0.0200		98.7	70-130			
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Styrene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,1,1,2-Tetrachloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.5	70-130			
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Tetrahydrofuran	0.0170	0.010	mg/Kg wet	0.0200		85.1	70-130			V-16
Toluene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
1,2,3-Trichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
1,1,2-Trichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Trichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130			
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,2,4-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
1,3,5-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.5	70-130			
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.4	70-130			
o-Xylene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205426 - SW-846 5035										
LCS Dup (B205426-BSD1)										
Prepared & Analyzed: 06/11/18										
Acetone	0.267	0.10	mg/Kg wet	0.200		134	40-160	5.90	20	L-14 †
tert-Amyl Methyl Ether (TAME)	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130	7.58	20	
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	8.20	20	
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	2.98	20	
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	7.23	20	
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	7.90	20	
Bromoform	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	7.06	20	
Bromomethane	0.0145	0.010	mg/Kg wet	0.0200		72.7	40-160	21.0 *	20	R-05, V-34 †
2-Butanone (MEK)	0.266	0.040	mg/Kg wet	0.200		133	40-160	13.7	20	L-14 †
n-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	0.00	20	
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	5.58	20	
tert-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	1.94	20	
tert-Butyl Ethyl Ether (TBEE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	9.74	20	
Carbon Disulfide	0.0227	0.0060	mg/Kg wet	0.0200		114	70-130	6.36	20	
Carbon Tetrachloride	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	12.1	20	
Chlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	8.82	20	
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	0.881	20	
Chloroethane	0.0232	0.010	mg/Kg wet	0.0200		116	70-130	3.96	20	
Chloroform	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	7.41	20	
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200		103	40-160	9.65	20	†
2-Chlorotoluene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.423	20	
4-Chlorotoluene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.99	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	4.88	20	
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	1.09	20	
Dibromomethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	5.41	20	
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.48	20	
1,3-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	2.90	20	
1,4-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	0.524	20	
Dichlorodifluoromethane (Freon 12)	0.0172	0.010	mg/Kg wet	0.0200		85.9	40-160	16.5	20	V-34 †
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.87	20	
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	5.87	20	
1,1-Dichloroethylene	0.0227	0.0040	mg/Kg wet	0.0200		114	70-130	8.93	20	
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	10.8	20	
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	4.53	20	
1,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.13	20	
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	7.35	20	
2,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	9.70	20	
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	8.78	20	
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130	4.46	20	
trans-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		98.1	70-130	1.75	20	
Diethyl Ether	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	4.95	20	
Diisopropyl Ether (DIPE)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	9.19	20	
1,4-Dioxane	0.207	0.10	mg/Kg wet	0.200		103	40-160	19.0	20	V-16 †
Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	4.50	20	
Hexachlorobutadiene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	0.00	20	
2-Hexanone (MBK)	0.230	0.020	mg/Kg wet	0.200		115	40-160	0.901	20	†
Isopropylbenzene (Cumene)	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.18	20	
p-Isopropyltoluene (p-Cymene)	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	2.45	20	
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130	8.35	20	
Methylene Chloride	0.0225	0.010	mg/Kg wet	0.0200		112	70-130	13.0	20	V-16, V-20
4-Methyl-2-pentanone (MIBK)	0.234	0.020	mg/Kg wet	0.200		117	40-160	3.95	20	†
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	2.01	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205426 - SW-846 5035										
LCS Dup (B205426-BSD1)										
Prepared & Analyzed: 06/11/18										
n-Propylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130	0.412	20	
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	1.01	20	
1,1,1,2-Tetrachloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.84	20	
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130	2.09	20	
Tetrachloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	6.00	20	
Tetrahydrofuran	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130	9.73	20	V-16
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	7.38	20	
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.38	20	
1,2,4-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	3.91	20	
1,1,1-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	4.71	20	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	11.8	20	
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	9.10	20	
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	12.7	20	
1,2,3-Trichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	0.826	20	
1,2,4-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	2.90	20	
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	1.72	20	
Vinyl Chloride	0.0199	0.010	mg/Kg wet	0.0200		99.6	70-130	9.57	20	
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.7	70-130	6.58	20	
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	1.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.0522		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/Kg wet	0.0500		99.0	70-130			

Batch B205443 - SW-846 5035

Blank (B205443-BLK1)

Prepared: 06/11/18 Analyzed: 06/12/18

Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							R-05
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.20	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205443 - SW-846 5035										
Blank (B205443-BLK1)										
					Prepared: 06/11/18 Analyzed: 06/12/18					
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.20	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.20	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							R-05
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0254		mg/Kg wet	0.0250		101	70-130			
Surrogate: Toluene-d8	0.0246		mg/Kg wet	0.0250		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0240		mg/Kg wet	0.0250		96.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205443 - SW-846 5035										
LCS (B205443-BS1)										
					Prepared: 06/11/18 Analyzed: 06/12/18					
Acetone	0.131	0.057	mg/Kg wet	0.113		115	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130			
Benzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
Bromobenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
Bromochloromethane	0.0152	0.0011	mg/Kg wet	0.0113		134 *	70-130			L-02
Bromodichloromethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Bromoform	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Bromomethane	0.0101	0.0023	mg/Kg wet	0.0113		89.1	40-160			R-05, V-20 †
2-Butanone (MEK)	0.129	0.023	mg/Kg wet	0.113		114	40-160			†
n-Butylbenzene	0.0147	0.0011	mg/Kg wet	0.0113		130	70-130			
sec-Butylbenzene	0.0145	0.0011	mg/Kg wet	0.0113		128	70-130			
tert-Butylbenzene	0.0141	0.0011	mg/Kg wet	0.0113		125	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Carbon Disulfide	0.0131	0.011	mg/Kg wet	0.0113		115	70-130			
Carbon Tetrachloride	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Chlorobenzene	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
Chlorodibromomethane	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130			
Chloroethane	0.0112	0.0023	mg/Kg wet	0.0113		98.4	70-130			
Chloroform	0.0130	0.0023	mg/Kg wet	0.0113		115	70-130			
Chloromethane	0.0103	0.0023	mg/Kg wet	0.0113		90.8	40-160			†
2-Chlorotoluene	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130			
4-Chlorotoluene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0128	0.0045	mg/Kg wet	0.0113		113	70-130			
1,2-Dibromoethane (EDB)	0.0130	0.00057	mg/Kg wet	0.0113		115	70-130			
Dibromomethane	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
1,2-Dichlorobenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130			
1,3-Dichlorobenzene	0.0139	0.0011	mg/Kg wet	0.0113		123	70-130			
1,4-Dichlorobenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
Dichlorodifluoromethane (Freon 12)	0.00968	0.0023	mg/Kg wet	0.0113		85.4	40-160			†
1,1-Dichloroethane	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130			
1,2-Dichloroethane	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130			
1,1-Dichloroethylene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			
cis-1,2-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
trans-1,2-Dichloroethylene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
1,2-Dichloropropane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
1,3-Dichloropropane	0.0123	0.00057	mg/Kg wet	0.0113		108	70-130			
2,2-Dichloropropane	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
1,1-Dichloropropene	0.0125	0.0023	mg/Kg wet	0.0113		110	70-130			
cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130			
trans-1,3-Dichloropropene	0.0130	0.00057	mg/Kg wet	0.0113		115	70-130			
Diethyl Ether	0.0125	0.0023	mg/Kg wet	0.0113		111	70-130			
Diisopropyl Ether (DIPE)	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
1,4-Dioxane	0.117	0.057	mg/Kg wet	0.113		103	40-160			V-16 †
Ethylbenzene	0.0140	0.0011	mg/Kg wet	0.0113		123	70-130			
Hexachlorobutadiene	0.0159	0.0011	mg/Kg wet	0.0113		140 *	70-130			V-20, L-02
2-Hexanone (MBK)	0.132	0.011	mg/Kg wet	0.113		117	40-160			†
Isopropylbenzene (Cumene)	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130			
p-Isopropyltoluene (p-Cymene)	0.0144	0.0011	mg/Kg wet	0.0113		127	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
Methylene Chloride	0.0127	0.0057	mg/Kg wet	0.0113		112	70-130			
4-Methyl-2-pentanone (MIBK)	0.134	0.011	mg/Kg wet	0.113		118	40-160			†
Naphthalene	0.0129	0.0023	mg/Kg wet	0.0113		114	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205443 - SW-846 5035										
LCS (B205443-BS1)										
					Prepared: 06/11/18 Analyzed: 06/12/18					
n-Propylbenzene	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130			
Styrene	0.0140	0.0011	mg/Kg wet	0.0113		124	70-130			
1,1,1,2-Tetrachloroethane	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130			
1,1,2,2-Tetrachloroethane	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130			
Tetrachloroethylene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
Tetrahydrofuran	0.0133	0.0045	mg/Kg wet	0.0113		117	70-130			
Toluene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2,3-Trichlorobenzene	0.0137	0.0045	mg/Kg wet	0.0113		121	70-130			
1,2,4-Trichlorobenzene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130			
1,1,1-Trichloroethane	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
1,1,2-Trichloroethane	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
Trichloroethylene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
Trichlorofluoromethane (Freon 11)	0.0106	0.0023	mg/Kg wet	0.0113		93.3	70-130			
1,2,3-Trichloropropane	0.0134	0.0023	mg/Kg wet	0.0113		118	70-130			R-05
1,2,4-Trimethylbenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,3,5-Trimethylbenzene	0.0135	0.0011	mg/Kg wet	0.0113		120	70-130			
Vinyl Chloride	0.0110	0.0023	mg/Kg wet	0.0113		97.2	70-130			
m+p Xylene	0.0275	0.0023	mg/Kg wet	0.0227		122	70-130			
o-Xylene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0284		mg/Kg wet	0.0283		100	70-130			
Surrogate: Toluene-d8	0.0281		mg/Kg wet	0.0283		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0281		mg/Kg wet	0.0283		99.2	70-130			
LCS Dup (B205443-BSD1)										
					Prepared: 06/11/18 Analyzed: 06/12/18					
Acetone	0.131	0.057	mg/Kg wet	0.113		116	40-160	0.277	20	†
tert-Amyl Methyl Ether (TAME)	0.0119	0.00057	mg/Kg wet	0.0113		105	70-130	2.21	20	
Benzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	1.09	20	
Bromobenzene	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	2.21	20	
Bromochloromethane	0.0148	0.0011	mg/Kg wet	0.0113		131 *	70-130	2.26	20	L-02
Bromodichloromethane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	2.75	20	
Bromoform	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	0.287	20	
Bromomethane	0.0125	0.0023	mg/Kg wet	0.0113		110	40-160	21.2 *	20	R-05, V-20 †
2-Butanone (MEK)	0.130	0.023	mg/Kg wet	0.113		115	40-160	0.780	20	†
n-Butylbenzene	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130	3.61	20	
sec-Butylbenzene	0.0140	0.0011	mg/Kg wet	0.0113		123	70-130	3.74	20	
tert-Butylbenzene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	2.03	20	
tert-Butyl Ethyl Ether (TBEE)	0.0119	0.00057	mg/Kg wet	0.0113		105	70-130	1.15	20	
Carbon Disulfide	0.0123	0.011	mg/Kg wet	0.0113		108	70-130	6.35	20	
Carbon Tetrachloride	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	2.36	20	
Chlorobenzene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	2.85	20	
Chlorodibromomethane	0.0132	0.00057	mg/Kg wet	0.0113		116	70-130	2.53	20	
Chloroethane	0.0119	0.0023	mg/Kg wet	0.0113		105	70-130	6.11	20	
Chloroform	0.0131	0.0023	mg/Kg wet	0.0113		115	70-130	0.0868	20	
Chloromethane	0.0105	0.0023	mg/Kg wet	0.0113		92.5	40-160	1.85	20	†
2-Chlorotoluene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	2.43	20	
4-Chlorotoluene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	4.37	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0126	0.0045	mg/Kg wet	0.0113		112	70-130	1.42	20	
1,2-Dibromoethane (EDB)	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130	0.955	20	
Dibromomethane	0.0138	0.0011	mg/Kg wet	0.0113		121	70-130	4.98	20	
1,2-Dichlorobenzene	0.0132	0.0011	mg/Kg wet	0.0113		117	70-130	3.21	20	
1,3-Dichlorobenzene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	0.900	20	
1,4-Dichlorobenzene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	5.01	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205443 - SW-846 5035										
LCS Dup (B205443-BSD1)										
					Prepared: 06/11/18 Analyzed: 06/12/18					
Dichlorodifluoromethane (Freon 12)	0.00945	0.0023	mg/Kg wet	0.0113		83.4	40-160	2.37	20	†
1,1-Dichloroethane	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130	0.426	20	
1,2-Dichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	3.72	20	
1,1-Dichloroethylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	2.20	20	
cis-1,2-Dichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	1.40	20	
trans-1,2-Dichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	2.80	20	
1,2-Dichloropropane	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	2.66	20	
1,3-Dichloropropane	0.0123	0.00057	mg/Kg wet	0.0113		109	70-130	0.646	20	
2,2-Dichloropropane	0.0139	0.0011	mg/Kg wet	0.0113		122	70-130	1.46	20	
1,1-Dichloropropene	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130	3.50	20	
cis-1,3-Dichloropropene	0.0123	0.00057	mg/Kg wet	0.0113		109	70-130	1.28	20	
trans-1,3-Dichloropropene	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130	1.41	20	
Diethyl Ether	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130	1.46	20	
Diisopropyl Ether (DIPE)	0.0117	0.00057	mg/Kg wet	0.0113		103	70-130	0.966	20	
1,4-Dioxane	0.126	0.057	mg/Kg wet	0.113		111	40-160	7.04	20	V-16 †
Ethylbenzene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	3.72	20	
Hexachlorobutadiene	0.0152	0.0011	mg/Kg wet	0.0113		134 *	70-130	4.52	20	L-02, V-20
2-Hexanone (MBK)	0.134	0.011	mg/Kg wet	0.113		119	40-160	1.49	20	†
Isopropylbenzene (Cumene)	0.0138	0.0011	mg/Kg wet	0.0113		121	70-130	4.67	20	
p-Isopropyltoluene (p-Cymene)	0.0141	0.0011	mg/Kg wet	0.0113		125	70-130	2.06	20	
Methyl tert-Butyl Ether (MTBE)	0.0131	0.0011	mg/Kg wet	0.0113		115	70-130	0.605	20	
Methylene Chloride	0.0125	0.0057	mg/Kg wet	0.0113		110	70-130	1.53	20	
4-Methyl-2-pentanone (MIBK)	0.134	0.011	mg/Kg wet	0.113		119	40-160	0.211	20	†
Naphthalene	0.0127	0.0023	mg/Kg wet	0.0113		112	70-130	1.86	20	
n-Propylbenzene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	1.68	20	
Styrene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	3.79	20	
1,1,1,2-Tetrachloroethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	2.34	20	
1,1,1,2,2-Tetrachloroethane	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130	0.00	20	
Tetrachloroethylene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	4.73	20	
Tetrahydrofuran	0.0136	0.0045	mg/Kg wet	0.0113		120	70-130	1.94	20	
Toluene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	3.42	20	
1,2,3-Trichlorobenzene	0.0133	0.0045	mg/Kg wet	0.0113		117	70-130	3.11	20	
1,2,4-Trichlorobenzene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	0.594	20	
1,1,1-Trichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	2.45	20	
1,1,2-Trichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	1.09	20	
Trichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	4.93	20	
Trichlorofluoromethane (Freon 11)	0.0105	0.0023	mg/Kg wet	0.0113		92.8	70-130	0.537	20	
1,2,3-Trichloropropane	0.0106	0.0023	mg/Kg wet	0.0113		93.7	70-130	22.9 *	20	R-05
1,2,4-Trimethylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	3.07	20	
1,3,5-Trimethylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	3.40	20	
Vinyl Chloride	0.0106	0.0023	mg/Kg wet	0.0113		93.2	70-130	4.20	20	
m+p Xylene	0.0265	0.0023	mg/Kg wet	0.0227		117	70-130	3.99	20	
o-Xylene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130	4.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.0284		mg/Kg wet	0.0283		100	70-130			
Surrogate: Toluene-d8	0.0282		mg/Kg wet	0.0283		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0280		mg/Kg wet	0.0283		98.9	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205242 - SW-846 3546

Blank (B205242-BLK1)

Prepared: 06/08/18 Analyzed: 06/11/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.33	mg/Kg wet							
Aniline	ND	0.33	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.33	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet							
4-Bromophenylphenylether	ND	0.33	mg/Kg wet							
Butylbenzylphthalate	ND	0.33	mg/Kg wet							
4-Chloroaniline	ND	0.64	mg/Kg wet							V-35
2-Chloronaphthalene	ND	0.33	mg/Kg wet							
2-Chlorophenol	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.33	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.33	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.33	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-35
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.33	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							
3/4-Methylphenol	ND	0.33	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.33	mg/Kg wet							
2-Nitrophenol	ND	0.33	mg/Kg wet							
4-Nitrophenol	ND	0.64	mg/Kg wet							
Pentachlorophenol	ND	0.33	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205242 - SW-846 3546										
Blank (B205242-BLK1)										
Prepared: 06/08/18 Analyzed: 06/11/18										
Phenol	ND	0.33	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.33	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.33	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.27		mg/Kg wet	6.47		65.9	30-130			
Surrogate: Phenol-d6	4.37		mg/Kg wet	6.47		67.6	30-130			
Surrogate: Nitrobenzene-d5	2.04		mg/Kg wet	3.24		62.9	30-130			
Surrogate: 2-Fluorobiphenyl	1.76		mg/Kg wet	3.24		54.3	30-130			
Surrogate: 2,4,6-Tribromophenol	4.38		mg/Kg wet	6.47		67.7	30-130			
Surrogate: p-Terphenyl-d14	2.34		mg/Kg wet	3.24		72.2	30-130			
LCS (B205242-BS1)										
Prepared: 06/08/18 Analyzed: 06/11/18										
Acenaphthene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140			
Acenaphthylene	0.956	0.17	mg/Kg wet	1.67		57.3	40-140			
Acetophenone	0.955	0.34	mg/Kg wet	1.67		57.3	40-140			
Aniline	0.913	0.34	mg/Kg wet	1.67		54.8	40-140			V-04
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140			
Benzo(a)anthracene	0.968	0.17	mg/Kg wet	1.67		58.1	40-140			
Benzo(a)pyrene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Benzo(b)fluoranthene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(g,h,i)perylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Benzo(k)fluoranthene	0.970	0.17	mg/Kg wet	1.67		58.2	40-140			
Bis(2-chloroethoxy)methane	1.03	0.34	mg/Kg wet	1.67		61.5	40-140			
Bis(2-chloroethyl)ether	0.942	0.34	mg/Kg wet	1.67		56.5	40-140			
Bis(2-chloroisopropyl)ether	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Bis(2-Ethylhexyl)phthalate	0.927	0.34	mg/Kg wet	1.67		55.6	40-140			
4-Bromophenylphenylether	0.968	0.34	mg/Kg wet	1.67		58.1	40-140			
Butylbenzylphthalate	0.964	0.34	mg/Kg wet	1.67		57.8	40-140			
4-Chloroaniline	0.623	0.66	mg/Kg wet	1.67		37.4	15-140			V-35 †
2-Chloronaphthalene	0.826	0.34	mg/Kg wet	1.67		49.5	40-140			
2-Chlorophenol	0.937	0.34	mg/Kg wet	1.67		56.2	30-130			
Chrysene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140			
Dibenz(a,h)anthracene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Dibenzofuran	1.01	0.34	mg/Kg wet	1.67		60.3	40-140			
Di-n-butylphthalate	0.954	0.34	mg/Kg wet	1.67		57.2	40-140			
1,2-Dichlorobenzene	0.888	0.34	mg/Kg wet	1.67		53.3	40-140			
1,3-Dichlorobenzene	0.862	0.34	mg/Kg wet	1.67		51.7	40-140			
1,4-Dichlorobenzene	0.867	0.34	mg/Kg wet	1.67		52.0	40-140			
3,3-Dichlorobenzidine	0.674	0.17	mg/Kg wet	1.67		40.4	40-140			V-35
2,4-Dichlorophenol	0.914	0.34	mg/Kg wet	1.67		54.8	30-130			
Diethylphthalate	0.925	0.34	mg/Kg wet	1.67		55.5	40-140			
2,4-Dimethylphenol	0.939	0.34	mg/Kg wet	1.67		56.3	30-130			
Dimethylphthalate	0.983	0.34	mg/Kg wet	1.67		59.0	40-140			
2,4-Dinitrophenol	0.889	0.66	mg/Kg wet	1.67		53.3	15-140			†
2,4-Dinitrotoluene	0.957	0.34	mg/Kg wet	1.67		57.4	40-140			
2,6-Dinitrotoluene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140			
Di-n-octylphthalate	0.845	0.34	mg/Kg wet	1.67		50.7	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.08	0.34	mg/Kg wet	1.67		64.8	40-140			
Fluoranthene	0.991	0.17	mg/Kg wet	1.67		59.5	40-140			
Fluorene	0.950	0.17	mg/Kg wet	1.67		57.0	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205242 - SW-846 3546

LCS (B205242-BS1)

Prepared: 06/08/18 Analyzed: 06/11/18

Hexachlorobenzene	0.977	0.34	mg/Kg wet	1.67		58.6	40-140			
Hexachlorobutadiene	0.845	0.34	mg/Kg wet	1.67		50.7	40-140			
Hexachloroethane	0.873	0.34	mg/Kg wet	1.67		52.4	40-140			
Indeno(1,2,3-cd)pyrene	0.976	0.17	mg/Kg wet	1.67		58.5	40-140			
Isophorone	0.982	0.34	mg/Kg wet	1.67		58.9	40-140			
2-Methylnaphthalene	0.997	0.17	mg/Kg wet	1.67		59.8	40-140			
2-Methylphenol	0.998	0.34	mg/Kg wet	1.67		59.9	30-130			
3/4-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.6	30-130			
Naphthalene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140			
Nitrobenzene	0.939	0.34	mg/Kg wet	1.67		56.4	40-140			
2-Nitrophenol	0.942	0.34	mg/Kg wet	1.67		56.5	30-130			
4-Nitrophenol	1.02	0.66	mg/Kg wet	1.67		61.2	15-140			†
Pentachlorophenol	0.804	0.34	mg/Kg wet	1.67		48.3	30-130			
Phenanthrene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140			
Phenol	0.994	0.34	mg/Kg wet	1.67		59.7	15-140			†
Pyrene	0.991	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyridine	0.757	0.34	mg/Kg wet	1.67		45.4	30-140			†
1,2,4-Trichlorobenzene	0.888	0.34	mg/Kg wet	1.67		53.3	40-140			
2,4,5-Trichlorophenol	0.979	0.34	mg/Kg wet	1.67		58.8	30-130			
2,4,6-Trichlorophenol	0.959	0.34	mg/Kg wet	1.67		57.5	30-130			
Surrogate: 2-Fluorophenol	4.31		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Phenol-d6	4.39		mg/Kg wet	6.67		65.8	30-130			
Surrogate: Nitrobenzene-d5	2.05		mg/Kg wet	3.33		61.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.82		mg/Kg wet	3.33		54.7	30-130			
Surrogate: 2,4,6-Tribromophenol	4.21		mg/Kg wet	6.67		63.1	30-130			
Surrogate: p-Terphenyl-d14	2.13		mg/Kg wet	3.33		63.9	30-130			

LCS Dup (B205242-BS1)

Prepared: 06/08/18 Analyzed: 06/11/18

Acenaphthene	0.898	0.17	mg/Kg wet	1.65		54.4	40-140	2.56	30	
Acenaphthylene	0.932	0.17	mg/Kg wet	1.65		56.5	40-140	2.51	30	
Acetophenone	0.983	0.34	mg/Kg wet	1.65		59.5	40-140	2.84	30	
Aniline	1.09	0.34	mg/Kg wet	1.65		66.3	40-140	18.0	30	V-04
Anthracene	0.985	0.17	mg/Kg wet	1.65		59.7	40-140	2.92	30	
Benzo(a)anthracene	0.941	0.17	mg/Kg wet	1.65		57.0	40-140	2.84	30	
Benzo(a)pyrene	0.973	0.17	mg/Kg wet	1.65		59.0	40-140	3.04	30	
Benzo(b)fluoranthene	0.941	0.17	mg/Kg wet	1.65		57.0	40-140	3.86	30	
Benzo(g,h,i)perylene	1.00	0.17	mg/Kg wet	1.65		60.7	40-140	1.95	30	
Benzo(k)fluoranthene	0.962	0.17	mg/Kg wet	1.65		58.3	40-140	0.823	30	
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.65		62.8	40-140	1.10	30	
Bis(2-chloroethyl)ether	0.951	0.34	mg/Kg wet	1.65		57.7	40-140	0.967	30	
Bis(2-chloroisopropyl)ether	1.13	0.34	mg/Kg wet	1.65		68.6	40-140	4.43	30	
Bis(2-Ethylhexyl)phthalate	0.893	0.34	mg/Kg wet	1.65		54.1	40-140	3.73	30	
4-Bromophenylphenylether	0.925	0.34	mg/Kg wet	1.65		56.1	40-140	4.46	30	
Butylbenzylphthalate	0.930	0.34	mg/Kg wet	1.65		56.4	40-140	3.59	30	
4-Chloroaniline	0.733	0.65	mg/Kg wet	1.65		44.4	15-140	16.2	30	V-35 †
2-Chloronaphthalene	0.850	0.34	mg/Kg wet	1.65		51.5	40-140	2.92	30	
2-Chlorophenol	0.957	0.34	mg/Kg wet	1.65		58.0	30-130	2.12	30	
Chrysene	0.918	0.17	mg/Kg wet	1.65		55.6	40-140	3.23	30	
Dibenz(a,h)anthracene	0.947	0.17	mg/Kg wet	1.65		57.4	40-140	1.34	30	
Dibenzofuran	0.970	0.34	mg/Kg wet	1.65		58.8	40-140	3.55	30	
Di-n-butylphthalate	0.929	0.34	mg/Kg wet	1.65		56.3	40-140	2.58	30	
1,2-Dichlorobenzene	0.922	0.34	mg/Kg wet	1.65		55.9	40-140	3.84	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205242 - SW-846 3546

LCS Dup (B205242-BSD1)

Prepared: 06/08/18 Analyzed: 06/11/18

1,3-Dichlorobenzene	0.894	0.34	mg/Kg wet	1.65		54.2	40-140	3.73	30	
1,4-Dichlorobenzene	0.903	0.34	mg/Kg wet	1.65		54.7	40-140	4.06	30	
3,3-Dichlorobenzidine	0.698	0.17	mg/Kg wet	1.65		42.3	40-140	3.55	30	V-35
2,4-Dichlorophenol	0.914	0.34	mg/Kg wet	1.65		55.4	30-130	0.0210	30	
Diethylphthalate	0.906	0.34	mg/Kg wet	1.65		54.9	40-140	2.15	30	
2,4-Dimethylphenol	0.965	0.34	mg/Kg wet	1.65		58.5	30-130	2.70	30	
Dimethylphthalate	0.949	0.34	mg/Kg wet	1.65		57.5	40-140	3.50	30	
2,4-Dinitrophenol	0.852	0.65	mg/Kg wet	1.65		51.6	15-140	4.27	30	†
2,4-Dinitrotoluene	0.939	0.34	mg/Kg wet	1.65		56.9	40-140	1.87	30	
2,6-Dinitrotoluene	0.957	0.34	mg/Kg wet	1.65		58.0	40-140	4.65	30	
Di-n-octylphthalate	0.815	0.34	mg/Kg wet	1.65		49.4	40-140	3.67	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.05	0.34	mg/Kg wet	1.65		63.4	40-140	3.15	30	
Fluoranthene	0.962	0.17	mg/Kg wet	1.65		58.3	40-140	2.96	30	
Fluorene	0.936	0.17	mg/Kg wet	1.65		56.7	40-140	1.49	30	
Hexachlorobenzene	0.946	0.34	mg/Kg wet	1.65		57.3	40-140	3.31	30	
Hexachlorobutadiene	0.878	0.34	mg/Kg wet	1.65		53.2	40-140	3.86	30	
Hexachloroethane	0.909	0.34	mg/Kg wet	1.65		55.1	40-140	4.03	30	
Indeno(1,2,3-cd)pyrene	0.952	0.17	mg/Kg wet	1.65		57.7	40-140	2.41	30	
Isophorone	0.992	0.34	mg/Kg wet	1.65		60.1	40-140	1.05	30	
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.65		61.3	40-140	1.48	30	
2-Methylphenol	1.01	0.34	mg/Kg wet	1.65		61.3	30-130	1.28	30	
3/4-Methylphenol	1.05	0.34	mg/Kg wet	1.65		63.6	30-130	0.901	30	
Naphthalene	0.961	0.17	mg/Kg wet	1.65		58.3	40-140	2.68	30	
Nitrobenzene	0.954	0.34	mg/Kg wet	1.65		57.8	40-140	1.60	30	
2-Nitrophenol	0.962	0.34	mg/Kg wet	1.65		58.3	30-130	2.14	30	
4-Nitrophenol	0.997	0.65	mg/Kg wet	1.65		60.4	15-140	2.18	30	†
Pentachlorophenol	0.804	0.34	mg/Kg wet	1.65		48.7	30-130	0.00533	30	
Phenanthrene	0.985	0.17	mg/Kg wet	1.65		59.7	40-140	3.70	30	
Phenol	1.01	0.34	mg/Kg wet	1.65		61.2	15-140	1.49	30	†
Pyrene	0.945	0.17	mg/Kg wet	1.65		57.3	40-140	4.70	30	
Pyridine	0.774	0.34	mg/Kg wet	1.65		46.9	30-140	2.30	30	†
1,2,4-Trichlorobenzene	0.916	0.34	mg/Kg wet	1.65		55.5	40-140	3.12	30	
2,4,5-Trichlorophenol	0.934	0.34	mg/Kg wet	1.65		56.6	30-130	4.74	30	
2,4,6-Trichlorophenol	0.929	0.34	mg/Kg wet	1.65		56.3	30-130	3.14	30	
Surrogate: 2-Fluorophenol	4.36		mg/Kg wet	6.60		66.1	30-130			
Surrogate: Phenol-d6	4.33		mg/Kg wet	6.60		65.7	30-130			
Surrogate: Nitrobenzene-d5	2.04		mg/Kg wet	3.30		61.9	30-130			
Surrogate: 2-Fluorobiphenyl	1.72		mg/Kg wet	3.30		52.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.03		mg/Kg wet	6.60		61.1	30-130			
Surrogate: p-Terphenyl-d14	1.97		mg/Kg wet	3.30		59.8	30-130			

Matrix Spike (B205242-MS1)

Source: 18F0316-14

Prepared: 06/08/18 Analyzed: 06/11/18

Acenaphthene	1.16	0.19	mg/Kg dry	1.86	ND	62.3	40-140			
Acenaphthylene	1.21	0.19	mg/Kg dry	1.86	ND	64.8	40-140			
Acetophenone	1.20	0.38	mg/Kg dry	1.86	ND	64.7	40-140			
Aniline	1.22	0.38	mg/Kg dry	1.86	ND	65.4	40-140			V-04
Anthracene	1.31	0.19	mg/Kg dry	1.86	ND	70.5	40-140			
Benzo(a)anthracene	1.25	0.19	mg/Kg dry	1.86	ND	67.1	40-140			
Benzo(a)pyrene	1.31	0.19	mg/Kg dry	1.86	ND	70.6	40-140			
Benzo(b)fluoranthene	1.36	0.19	mg/Kg dry	1.86	ND	73.1	40-140			
Benzo(g,h,i)perylene	1.16	0.19	mg/Kg dry	1.86	ND	62.6	40-140			
Benzo(k)fluoranthene	1.36	0.19	mg/Kg dry	1.86	ND	73.3	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205242 - SW-846 3546										
Matrix Spike (B205242-MS1)	Source: 18F0316-14			Prepared: 06/08/18 Analyzed: 06/11/18						
Bis(2-chloroethoxy)methane	1.30	0.38	mg/Kg dry	1.86	ND	69.9	40-140			
Bis(2-chloroethyl)ether	1.23	0.38	mg/Kg dry	1.86	ND	66.3	40-140			
Bis(2-chloroisopropyl)ether	1.33	0.38	mg/Kg dry	1.86	ND	71.3	40-140			
Bis(2-Ethylhexyl)phthalate	1.17	0.38	mg/Kg dry	1.86	ND	63.0	40-140			
4-Bromophenylphenylether	1.25	0.38	mg/Kg dry	1.86	ND	66.9	40-140			
Butylbenzylphthalate	1.20	0.38	mg/Kg dry	1.86	ND	64.4	40-140			
4-Chloroaniline	0.988	0.74	mg/Kg dry	1.86	ND	53.1	40-140			V-35
2-Chloronaphthalene	1.16	0.38	mg/Kg dry	1.86	ND	62.4	40-140			
2-Chlorophenol	1.20	0.38	mg/Kg dry	1.86	ND	64.7	30-130			
Chrysene	1.22	0.19	mg/Kg dry	1.86	ND	65.6	40-140			
Dibenz(a,h)anthracene	1.06	0.19	mg/Kg dry	1.86	ND	56.9	40-140			
Dibenzofuran	1.26	0.38	mg/Kg dry	1.86	ND	67.7	40-140			
Di-n-butylphthalate	1.22	0.38	mg/Kg dry	1.86	ND	65.5	40-140			
1,2-Dichlorobenzene	1.14	0.38	mg/Kg dry	1.86	ND	61.1	40-140			
1,3-Dichlorobenzene	1.10	0.38	mg/Kg dry	1.86	ND	59.3	40-140			
1,4-Dichlorobenzene	1.12	0.38	mg/Kg dry	1.86	ND	60.3	40-140			
3,3-Dichlorobenzidine	1.11	0.19	mg/Kg dry	1.86	ND	59.4	40-140			V-35
2,4-Dichlorophenol	1.18	0.38	mg/Kg dry	1.86	ND	63.3	30-130			
Diethylphthalate	1.19	0.38	mg/Kg dry	1.86	ND	63.7	40-140			
2,4-Dimethylphenol	1.26	0.38	mg/Kg dry	1.86	ND	67.5	30-130			
Dimethylphthalate	1.24	0.38	mg/Kg dry	1.86	ND	66.9	40-140			
2,4-Dinitrophenol	1.09	0.74	mg/Kg dry	1.86	ND	58.8	30-130			
2,4-Dinitrotoluene	1.21	0.38	mg/Kg dry	1.86	ND	65.1	40-140			
2,6-Dinitrotoluene	1.24	0.38	mg/Kg dry	1.86	ND	66.4	40-140			
Di-n-octylphthalate	1.27	0.38	mg/Kg dry	1.86	ND	68.3	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.33	0.38	mg/Kg dry	1.86	ND	71.7	40-140			
Fluoranthene	1.28	0.19	mg/Kg dry	1.86	ND	68.6	40-140			
Fluorene	1.21	0.19	mg/Kg dry	1.86	ND	65.2	40-140			
Hexachlorobenzene	1.29	0.38	mg/Kg dry	1.86	ND	69.3	40-140			
Hexachlorobutadiene	1.15	0.38	mg/Kg dry	1.86	ND	62.1	40-140			
Hexachloroethane	1.12	0.38	mg/Kg dry	1.86	ND	60.1	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.19	mg/Kg dry	1.86	ND	58.4	40-140			
Isophorone	1.25	0.38	mg/Kg dry	1.86	ND	67.0	40-140			
2-Methylnaphthalene	1.31	0.19	mg/Kg dry	1.86	ND	70.3	40-140			
2-Methylphenol	1.23	0.38	mg/Kg dry	1.86	ND	66.0	30-130			
3/4-Methylphenol	1.30	0.38	mg/Kg dry	1.86	ND	70.1	30-130			
Naphthalene	1.21	0.19	mg/Kg dry	1.86	ND	65.2	40-140			
Nitrobenzene	1.18	0.38	mg/Kg dry	1.86	ND	63.2	40-140			
2-Nitrophenol	1.23	0.38	mg/Kg dry	1.86	ND	66.0	30-130			
4-Nitrophenol	1.26	0.74	mg/Kg dry	1.86	ND	67.5	30-130			
Pentachlorophenol	1.02	0.38	mg/Kg dry	1.86	ND	54.7	30-130			
Phenanthrene	1.30	0.19	mg/Kg dry	1.86	ND	70.1	40-140			
Phenol	1.26	0.38	mg/Kg dry	1.86	ND	67.5	30-130			
Pyrene	1.23	0.19	mg/Kg dry	1.86	ND	65.9	40-140			
Pyridine	0.881	0.38	mg/Kg dry	1.86	ND	47.4	40-140			
1,2,4-Trichlorobenzene	1.18	0.38	mg/Kg dry	1.86	ND	63.2	40-140			
2,4,5-Trichlorophenol	1.21	0.38	mg/Kg dry	1.86	ND	65.0	30-130			
2,4,6-Trichlorophenol	1.22	0.38	mg/Kg dry	1.86	ND	65.8	30-130			
Surrogate: 2-Fluorophenol	5.42		mg/Kg dry	7.44		72.9	30-130			
Surrogate: Phenol-d6	5.42		mg/Kg dry	7.44		72.9	30-130			
Surrogate: Nitrobenzene-d5	2.54		mg/Kg dry	3.72		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.28		mg/Kg dry	3.72		61.2	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205242 - SW-846 3546										
Matrix Spike (B205242-MS1) Source: 18F0316-14 Prepared: 06/08/18 Analyzed: 06/11/18										
Surrogate: 2,4,6-Tribromophenol	5.34		mg/Kg dry	7.44		71.7	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/Kg dry	3.72		69.8	30-130			
Matrix Spike Dup (B205242-MSD1) Source: 18F0316-14 Prepared: 06/08/18 Analyzed: 06/11/18										
Acenaphthene	1.12	0.19	mg/Kg dry	1.86	ND	60.3	40-140	3.26	30	
Acenaphthylene	1.16	0.19	mg/Kg dry	1.86	ND	62.4	40-140	3.77	30	
Acetophenone	1.13	0.38	mg/Kg dry	1.86	ND	60.8	40-140	6.21	30	
Aniline	1.06	0.38	mg/Kg dry	1.86	ND	56.9	40-140	13.9	30	V-04
Anthracene	1.24	0.19	mg/Kg dry	1.86	ND	66.4	40-140	5.99	30	
Benzo(a)anthracene	1.20	0.19	mg/Kg dry	1.86	ND	64.4	40-140	4.10	30	
Benzo(a)pyrene	1.27	0.19	mg/Kg dry	1.86	ND	68.4	40-140	3.19	30	
Benzo(b)fluoranthene	1.30	0.19	mg/Kg dry	1.86	ND	69.9	40-140	4.42	30	
Benzo(g,h,i)perylene	1.10	0.19	mg/Kg dry	1.86	ND	59.0	40-140	5.95	30	
Benzo(k)fluoranthene	1.32	0.19	mg/Kg dry	1.86	ND	70.9	40-140	3.41	30	
Bis(2-chloroethoxy)methane	1.20	0.38	mg/Kg dry	1.86	ND	64.6	40-140	7.94	30	
Bis(2-chloroethyl)ether	1.14	0.38	mg/Kg dry	1.86	ND	61.0	40-140	8.20	30	
Bis(2-chloroisopropyl)ether	1.22	0.38	mg/Kg dry	1.86	ND	65.5	40-140	8.48	30	
Bis(2-Ethylhexyl)phthalate	1.10	0.38	mg/Kg dry	1.86	ND	59.1	40-140	6.49	30	
4-Bromophenylphenylether	1.19	0.38	mg/Kg dry	1.86	ND	64.1	40-140	4.27	30	
Butylbenzylphthalate	1.13	0.38	mg/Kg dry	1.86	ND	60.5	40-140	6.21	30	
4-Chloroaniline	0.938	0.74	mg/Kg dry	1.86	ND	50.4	40-140	5.22	30	V-35
2-Chloronaphthalene	1.11	0.38	mg/Kg dry	1.86	ND	59.6	40-140	4.56	30	
2-Chlorophenol	1.13	0.38	mg/Kg dry	1.86	ND	60.8	30-130	6.28	30	
Chrysene	1.17	0.19	mg/Kg dry	1.86	ND	63.0	40-140	4.07	30	
Dibenz(a,h)anthracene	1.02	0.19	mg/Kg dry	1.86	ND	55.0	40-140	3.43	30	
Dibenzofuran	1.22	0.38	mg/Kg dry	1.86	ND	65.5	40-140	3.30	30	
Di-n-butylphthalate	1.14	0.38	mg/Kg dry	1.86	ND	61.5	40-140	6.27	30	
1,2-Dichlorobenzene	1.07	0.38	mg/Kg dry	1.86	ND	57.6	40-140	5.83	30	
1,3-Dichlorobenzene	1.03	0.38	mg/Kg dry	1.86	ND	55.5	40-140	6.72	30	
1,4-Dichlorobenzene	1.04	0.38	mg/Kg dry	1.86	ND	55.9	40-140	7.58	30	
3,3-Dichlorobenzidine	1.02	0.19	mg/Kg dry	1.86	ND	55.0	40-140	7.83	30	V-35
2,4-Dichlorophenol	1.12	0.38	mg/Kg dry	1.86	ND	60.0	30-130	5.35	30	
Diethylphthalate	1.14	0.38	mg/Kg dry	1.86	ND	61.1	40-140	4.17	30	
2,4-Dimethylphenol	1.20	0.38	mg/Kg dry	1.86	ND	64.4	30-130	4.64	30	
Dimethylphthalate	1.19	0.38	mg/Kg dry	1.86	ND	64.1	40-140	4.21	30	
2,4-Dinitrophenol	1.03	0.74	mg/Kg dry	1.86	ND	55.3	30-130	6.10	30	
2,4-Dinitrotoluene	1.18	0.38	mg/Kg dry	1.86	ND	63.7	40-140	2.24	30	
2,6-Dinitrotoluene	1.21	0.38	mg/Kg dry	1.86	ND	65.0	40-140	2.07	30	
Di-n-octylphthalate	1.21	0.38	mg/Kg dry	1.86	ND	65.3	40-140	4.55	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.38	mg/Kg dry	1.86	ND	67.4	40-140	6.30	30	
Fluoranthene	1.21	0.19	mg/Kg dry	1.86	ND	65.1	40-140	5.26	30	
Fluorene	1.18	0.19	mg/Kg dry	1.86	ND	63.2	40-140	3.02	30	
Hexachlorobenzene	1.23	0.38	mg/Kg dry	1.86	ND	66.3	40-140	4.51	30	
Hexachlorobutadiene	1.07	0.38	mg/Kg dry	1.86	ND	57.5	40-140	7.63	30	
Hexachloroethane	1.04	0.38	mg/Kg dry	1.86	ND	55.8	40-140	7.49	30	
Indeno(1,2,3-cd)pyrene	1.04	0.19	mg/Kg dry	1.86	ND	56.1	40-140	4.02	30	
Isophorone	1.16	0.38	mg/Kg dry	1.86	ND	62.4	40-140	7.11	30	
2-Methylnaphthalene	1.22	0.19	mg/Kg dry	1.86	ND	65.7	40-140	6.70	30	
2-Methylphenol	1.17	0.38	mg/Kg dry	1.86	ND	62.9	30-130	4.87	30	
3/4-Methylphenol	1.23	0.38	mg/Kg dry	1.86	ND	66.3	30-130	5.60	30	
Naphthalene	1.14	0.19	mg/Kg dry	1.86	ND	61.2	40-140	6.30	30	
Nitrobenzene	1.09	0.38	mg/Kg dry	1.86	ND	58.8	40-140	7.15	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205242 - SW-846 3546

Matrix Spike Dup (B205242-MSD1)

Source: 18F0316-14

Prepared: 06/08/18 Analyzed: 06/11/18

2-Nitrophenol	1.16	0.38	mg/Kg dry	1.86	ND	62.1	30-130	6.06	30	
4-Nitrophenol	1.20	0.74	mg/Kg dry	1.86	ND	64.4	30-130	4.79	30	
Pentachlorophenol	0.964	0.38	mg/Kg dry	1.86	ND	51.8	30-130	5.41	30	
Phenanthrene	1.24	0.19	mg/Kg dry	1.86	ND	66.9	40-140	4.67	30	
Phenol	1.16	0.38	mg/Kg dry	1.86	ND	62.6	30-130	7.56	30	
Pyrene	1.16	0.19	mg/Kg dry	1.86	ND	62.1	40-140	5.91	30	
Pyridine	0.825	0.38	mg/Kg dry	1.86	ND	44.4	40-140	6.54	30	
1,2,4-Trichlorobenzene	1.10	0.38	mg/Kg dry	1.86	ND	59.1	40-140	6.77	30	
2,4,5-Trichlorophenol	1.17	0.38	mg/Kg dry	1.86	ND	63.0	30-130	3.12	30	
2,4,6-Trichlorophenol	1.18	0.38	mg/Kg dry	1.86	ND	63.3	30-130	3.94	30	
Surrogate: 2-Fluorophenol	5.08		mg/Kg dry	7.44		68.3	30-130			
Surrogate: Phenol-d6	5.14		mg/Kg dry	7.44		69.0	30-130			
Surrogate: Nitrobenzene-d5	2.37		mg/Kg dry	3.72		63.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.22		mg/Kg dry	3.72		59.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.17		mg/Kg dry	7.44		69.5	30-130			
Surrogate: p-Terphenyl-d14	2.49		mg/Kg dry	3.72		66.9	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205229 - SW-846 3546

Blank (B205229-BLK1)

Prepared: 06/07/18 Analyzed: 06/12/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.221		mg/Kg wet	0.200		110	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205229 - SW-846 3546										
LCS (B205229-BS1)										
					Prepared: 06/07/18 Analyzed: 06/12/18					
alpha-Chlordane	0.11	0.0050	mg/Kg wet	0.100		112	40-140			
alpha-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		109	40-140			
gamma-Chlordane	0.11	0.0050	mg/Kg wet	0.100		111	40-140			
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.100		111	40-140			
Alachlor	0.12	0.020	mg/Kg wet	0.100		120	40-140			
Alachlor [2C]	0.11	0.020	mg/Kg wet	0.100		113	40-140			
Aldrin	0.11	0.0050	mg/Kg wet	0.100		115	40-140			
Aldrin [2C]	0.11	0.0050	mg/Kg wet	0.100		114	40-140			
alpha-BHC	0.11	0.0050	mg/Kg wet	0.100		111	40-140			
alpha-BHC [2C]	0.11	0.0050	mg/Kg wet	0.100		109	40-140			
beta-BHC	0.11	0.0050	mg/Kg wet	0.100		110	40-140			
beta-BHC [2C]	0.12	0.0050	mg/Kg wet	0.100		116	40-140			
delta-BHC	0.12	0.0050	mg/Kg wet	0.100		115	40-140			
delta-BHC [2C]	0.095	0.0050	mg/Kg wet	0.100		94.8	40-140			
gamma-BHC (Lindane)	0.11	0.0020	mg/Kg wet	0.100		113	40-140			
gamma-BHC (Lindane) [2C]	0.10	0.0020	mg/Kg wet	0.100		104	40-140			
4,4'-DDD	0.12	0.0040	mg/Kg wet	0.100		120	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDE	0.12	0.0040	mg/Kg wet	0.100		116	40-140			
4,4'-DDE [2C]	0.095	0.0040	mg/Kg wet	0.100		94.6	40-140			
4,4'-DDT	0.12	0.0040	mg/Kg wet	0.100		121	40-140			
4,4'-DDT [2C]	0.12	0.0040	mg/Kg wet	0.100		116	40-140			
Dieldrin	0.11	0.0040	mg/Kg wet	0.100		114	40-140			
Dieldrin [2C]	0.12	0.0040	mg/Kg wet	0.100		120	40-140			
Endosulfan I	0.11	0.0050	mg/Kg wet	0.100		109	40-140			
Endosulfan I [2C]	0.11	0.0050	mg/Kg wet	0.100		110	40-140			
Endosulfan II	0.12	0.0080	mg/Kg wet	0.100		115	40-140			
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		89.9	40-140			
Endosulfan Sulfate	0.11	0.0080	mg/Kg wet	0.100		109	40-140			
Endosulfan Sulfate [2C]	0.11	0.0080	mg/Kg wet	0.100		108	40-140			
Endrin	0.12	0.0080	mg/Kg wet	0.100		115	40-140			
Endrin [2C]	0.11	0.0080	mg/Kg wet	0.100		108	40-140			
Endrin Aldehyde	0.12	0.0080	mg/Kg wet	0.100		115	40-140			
Endrin Aldehyde [2C]	0.096	0.0080	mg/Kg wet	0.100		95.5	40-140			
Endrin Ketone	0.12	0.0080	mg/Kg wet	0.100		118	40-140			
Endrin Ketone [2C]	0.097	0.0080	mg/Kg wet	0.100		97.0	40-140			
Heptachlor	0.11	0.0050	mg/Kg wet	0.100		108	40-140			
Heptachlor [2C]	0.11	0.0050	mg/Kg wet	0.100		111	40-140			
Heptachlor Epoxide	0.11	0.0050	mg/Kg wet	0.100		109	40-140			
Heptachlor Epoxide [2C]	0.11	0.0050	mg/Kg wet	0.100		112	40-140			
Hexachlorobenzene	0.12	0.0060	mg/Kg wet	0.100		116	40-140			
Hexachlorobenzene [2C]	0.12	0.0060	mg/Kg wet	0.100		119	40-140			
Methoxychlor	0.12	0.050	mg/Kg wet	0.100		119	40-140			
Methoxychlor [2C]	0.12	0.050	mg/Kg wet	0.100		118	40-140			
Surrogate: Decachlorobiphenyl	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.233		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.224		mg/Kg wet	0.200		112	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205229 - SW-846 3546										
LCS Dup (B205229-BSD1)										
					Prepared: 06/07/18 Analyzed: 06/12/18					
alpha-Chlordane	0.098	0.0050	mg/Kg wet	0.0990		99.1	40-140	13.3	30	
alpha-Chlordane [2C]	0.096	0.0050	mg/Kg wet	0.0990		97.3	40-140	12.7	30	
gamma-Chlordane	0.097	0.0050	mg/Kg wet	0.0990		98.4	40-140	13.0	30	
gamma-Chlordane [2C]	0.097	0.0050	mg/Kg wet	0.0990		97.5	40-140	14.3	30	
Alachlor	0.12	0.020	mg/Kg wet	0.0990		119	40-140	1.79	30	
Alachlor [2C]	0.12	0.020	mg/Kg wet	0.0990		121	40-140	5.72	30	
Aldrin	0.099	0.0050	mg/Kg wet	0.0990		99.8	40-140	15.0	30	
Aldrin [2C]	0.099	0.0050	mg/Kg wet	0.0990		99.7	40-140	14.7	30	
alpha-BHC	0.094	0.0050	mg/Kg wet	0.0990		95.1	40-140	16.5	30	
alpha-BHC [2C]	0.092	0.0050	mg/Kg wet	0.0990		93.1	40-140	16.9	30	
beta-BHC	0.093	0.0050	mg/Kg wet	0.0990		94.1	40-140	16.6	30	
beta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.0990		104	40-140	11.2	30	
delta-BHC	0.10	0.0050	mg/Kg wet	0.0990		102	40-140	13.4	30	
delta-BHC [2C]	0.087	0.0050	mg/Kg wet	0.0990		87.5	40-140	9.00	30	
gamma-BHC (Lindane)	0.095	0.0020	mg/Kg wet	0.0990		96.4	40-140	17.1	30	
gamma-BHC (Lindane) [2C]	0.090	0.0020	mg/Kg wet	0.0990		91.1	40-140	14.4	30	
4,4'-DDD	0.11	0.0040	mg/Kg wet	0.0990		106	40-140	13.3	30	
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.0990		105	40-140	0.489	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.0990		103	40-140	12.7	30	
4,4'-DDE [2C]	0.099	0.0040	mg/Kg wet	0.0990		100	40-140	4.76	30	
4,4'-DDT	0.11	0.0040	mg/Kg wet	0.0990		107	40-140	13.4	30	
4,4'-DDT [2C]	0.098	0.0040	mg/Kg wet	0.0990		98.7	40-140	16.9	30	
Dieldrin	0.10	0.0040	mg/Kg wet	0.0990		101	40-140	12.7	30	
Dieldrin [2C]	0.10	0.0040	mg/Kg wet	0.0990		105	40-140	14.0	30	
Endosulfan I	0.094	0.0050	mg/Kg wet	0.0990		95.3	40-140	14.1	30	
Endosulfan I [2C]	0.096	0.0050	mg/Kg wet	0.0990		97.4	40-140	13.4	30	
Endosulfan II	0.10	0.0079	mg/Kg wet	0.0990		102	40-140	12.6	30	
Endosulfan II [2C]	0.094	0.0079	mg/Kg wet	0.0990		94.9	40-140	4.45	30	
Endosulfan Sulfate	0.10	0.0079	mg/Kg wet	0.0990		101	40-140	9.44	30	
Endosulfan Sulfate [2C]	0.10	0.0079	mg/Kg wet	0.0990		102	40-140	6.72	30	
Endrin	0.10	0.0079	mg/Kg wet	0.0990		101	40-140	13.8	30	
Endrin [2C]	0.097	0.0079	mg/Kg wet	0.0990		98.0	40-140	10.8	30	
Endrin Aldehyde	0.10	0.0079	mg/Kg wet	0.0990		103	40-140	12.2	30	
Endrin Aldehyde [2C]	0.092	0.0079	mg/Kg wet	0.0990		93.1	40-140	3.53	30	
Endrin Ketone	0.10	0.0079	mg/Kg wet	0.0990		105	40-140	12.5	30	
Endrin Ketone [2C]	0.097	0.0079	mg/Kg wet	0.0990		98.4	40-140	0.493	30	
Heptachlor	0.093	0.0050	mg/Kg wet	0.0990		93.5	40-140	15.5	30	
Heptachlor [2C]	0.096	0.0050	mg/Kg wet	0.0990		97.1	40-140	14.7	30	
Heptachlor Epoxide	0.097	0.0050	mg/Kg wet	0.0990		97.9	40-140	11.5	30	
Heptachlor Epoxide [2C]	0.097	0.0050	mg/Kg wet	0.0990		97.6	40-140	14.6	30	
Hexachlorobenzene	0.10	0.0059	mg/Kg wet	0.0990		101	40-140	14.9	30	
Hexachlorobenzene [2C]	0.10	0.0059	mg/Kg wet	0.0990		104	40-140	15.0	30	
Methoxychlor	0.11	0.050	mg/Kg wet	0.0990		106	40-140	12.0	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.0990		106	40-140	11.9	30	
Surrogate: Decachlorobiphenyl	0.161		mg/Kg wet	0.198		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.198		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.198		88.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.198		107	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205228 - SW-846 3546										
Blank (B205228-BLK1)										
Prepared: 06/07/18 Analyzed: 06/08/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.155		mg/Kg wet	0.200		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		86.0	30-150			
LCS (B205228-BS1)										
Prepared: 06/07/18 Analyzed: 06/08/18										
Aroclor-1016	0.17	0.019	mg/Kg wet	0.194		86.5	40-140			
Aroclor-1016 [2C]	0.17	0.019	mg/Kg wet	0.194		88.1	40-140			
Aroclor-1260	0.16	0.019	mg/Kg wet	0.194		83.4	40-140			
Aroclor-1260 [2C]	0.17	0.019	mg/Kg wet	0.194		85.8	40-140			
Surrogate: Decachlorobiphenyl	0.149		mg/Kg wet	0.194		76.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.194		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.194		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.165		mg/Kg wet	0.194		85.1	30-150			
LCS Dup (B205228-BSD1)										
Prepared: 06/07/18 Analyzed: 06/08/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	0.441	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.5	40-140	0.365	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.4	40-140	1.20	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.2	40-140	1.55	30	
Surrogate: Decachlorobiphenyl	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg wet	0.200		84.3	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205237 - SW-846 8151										
Blank (B205237-BLK1)										
Prepared: 06/08/18 Analyzed: 06/14/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	78.6		µg/kg wet	95.2		82.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	91.3		µg/kg wet	95.2		95.9	30-150			
LCS (B205237-BS1)										
Prepared: 06/08/18 Analyzed: 06/14/18										
2,4-D	139	25	µg/kg wet	125		111	40-140			
2,4-D [2C]	153	25	µg/kg wet	125		122	40-140			
2,4-DB	139	25	µg/kg wet	125		111	40-140			
2,4-DB [2C]	138	25	µg/kg wet	125		110	40-140			
2,4,5-TP (Silvex)	13.8	2.5	µg/kg wet	12.5		110	40-140			
2,4,5-TP (Silvex) [2C]	14.2	2.5	µg/kg wet	12.5		114	40-140			
2,4,5-T	14.0	2.5	µg/kg wet	12.5		112	40-140			
2,4,5-T [2C]	14.2	2.5	µg/kg wet	12.5		114	40-140			
Dalapon	237	62	µg/kg wet	312		75.7	40-140			
Dalapon [2C]	249	62	µg/kg wet	312		79.5	40-140			
Dicamba	13.1	2.5	µg/kg wet	12.5		105	40-140			
Dicamba [2C]	15.2	2.5	µg/kg wet	12.5		121	40-140			
Dichloroprop	137	25	µg/kg wet	125		110	40-140			
Dichloroprop [2C]	155	25	µg/kg wet	125		124	40-140			
Dinoseb	20.6	12	µg/kg wet	62.5		32.9	0-42.4			V-06
Dinoseb [2C]	20.2	12	µg/kg wet	62.5		32.4	0-41.1			
MCPA	13300	2500	µg/kg wet	12500		107	40-140			
MCPA [2C]	12800	2500	µg/kg wet	12500		102	40-140			
MCPP	13000	2500	µg/kg wet	12500		104	40-140			
MCPP [2C]	13100	2500	µg/kg wet	12500		105	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	104		µg/kg wet	100		104	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	122		µg/kg wet	100		122	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205237 - SW-846 8151										
LCS Dup (B205237-BSD1)										
					Prepared: 06/08/18 Analyzed: 06/14/18					
2,4-D	123	25	µg/kg wet	125		98.2	40-140	12.2	30	
2,4-D [2C]	133	25	µg/kg wet	125		106	40-140	14.1	30	
2,4-DB	122	25	µg/kg wet	125		97.6	40-140	13.1	30	
2,4-DB [2C]	125	25	µg/kg wet	125		100	40-140	9.79	30	
2,4,5-TP (Silvex)	12.2	2.5	µg/kg wet	12.5		97.8	40-140	11.8	30	
2,4,5-TP (Silvex) [2C]	13.1	2.5	µg/kg wet	12.5		105	40-140	8.04	30	
2,4,5-T	12.4	2.5	µg/kg wet	12.5		99.0	40-140	12.0	30	
2,4,5-T [2C]	12.8	2.5	µg/kg wet	12.5		102	40-140	10.5	30	
Dalapon	182	62	µg/kg wet	312		58.1	40-140	26.3	30	
Dalapon [2C]	194	62	µg/kg wet	312		62.0	40-140	24.7	30	
Dicamba	11.7	2.5	µg/kg wet	12.5		93.2	40-140	11.9	30	
Dicamba [2C]	13.7	2.5	µg/kg wet	12.5		109	40-140	10.5	30	
Dichloroprop	121	25	µg/kg wet	125		97.1	40-140	12.3	30	
Dichloroprop [2C]	142	25	µg/kg wet	125		114	40-140	8.23	30	
Dinoseb	17.0	12	µg/kg wet	62.5		27.1	0-42.4	19.3	30	V-06
Dinoseb [2C]	17.1	12	µg/kg wet	62.5		27.3	0-41.1	16.9	30	
MCPA	11100	2500	µg/kg wet	12500		88.5	40-140	18.6	30	
MCPA [2C]	11400	2500	µg/kg wet	12500		91.0	40-140	11.6	30	
MCPP	11200	2500	µg/kg wet	12500		89.9	40-140	14.4	30	
MCPP [2C]	11700	2500	µg/kg wet	12500		93.8	40-140	11.0	30	
Surrogate: 2,4-Dichlorophenylacetic acid	92.3		µg/kg wet	100		92.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	109		µg/kg wet	100		109	30-150			
Matrix Spike (B205237-MS1)										
					Source: 18F0316-08 Prepared: 06/08/18 Analyzed: 06/15/18					
2,4-D	153	27	µg/kg dry	133	ND	115	30-150			V-06
2,4-D [2C]	186	27	µg/kg dry	133	ND	140	30-150			
2,4-DB	166	27	µg/kg dry	133	ND	124	30-150			V-06
2,4-DB [2C]	181	27	µg/kg dry	133	ND	136	30-150			V-06
2,4,5-TP (Silvex)	15.0	2.7	µg/kg dry	13.3	ND	112	30-150			V-06
2,4,5-TP (Silvex) [2C]	16.7	2.7	µg/kg dry	13.3	ND	125	30-150			
2,4,5-T	15.2	2.7	µg/kg dry	13.3	ND	114	30-150			V-06
2,4,5-T [2C]	17.0	2.7	µg/kg dry	13.3	ND	127	30-150			
Dalapon	235	67	µg/kg dry	333	ND	70.5	30-150			
Dalapon [2C]	286	67	µg/kg dry	333	ND	85.9	30-150			
Dicamba	13.3	2.7	µg/kg dry	13.3	ND	100	30-150			
Dicamba [2C]	17.4	2.7	µg/kg dry	13.3	ND	131	30-150			
Dichloroprop	147	27	µg/kg dry	133	ND	111	30-150			V-06
Dichloroprop [2C]	182	27	µg/kg dry	133	ND	137	30-150			
Dinoseb	28.6	13	µg/kg dry	66.6	ND	43.0	10-150			V-06
Dinoseb [2C]	24.9	13	µg/kg dry	66.6	ND	37.3	10-150			V-06
MCPA	12400	2700	µg/kg dry	13300	ND	92.8	30-150			
MCPA [2C]	13600	2700	µg/kg dry	13300	ND	102	30-150			V-06
MCPP	13200	2700	µg/kg dry	13300	ND	99.4	30-150			
MCPP [2C]	12800	2700	µg/kg dry	13300	ND	96.0	30-150			V-06
Surrogate: 2,4-Dichlorophenylacetic acid	111		µg/kg dry	107		104	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	140		µg/kg dry	107		132	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205237 - SW-846 8151										
Matrix Spike Dup (B205237-MSD1)										
		Source: 18F0316-08			Prepared: 06/08/18 Analyzed: 06/15/18					
2,4-D	151	27	µg/kg dry	133	ND	113	30-150	1.23	30	V-06
2,4-D [2C]	181	27	µg/kg dry	133	ND	136	30-150	2.71	30	
2,4-DB	160	27	µg/kg dry	133	ND	120	30-150	3.14	30	V-06
2,4-DB [2C]	178	27	µg/kg dry	133	ND	134	30-150	1.80	30	V-06
2,4,5-TP (Silvex)	14.9	2.7	µg/kg dry	13.3	ND	112	30-150	0.357	30	V-06
2,4,5-TP (Silvex) [2C]	16.6	2.7	µg/kg dry	13.3	ND	125	30-150	0.315	30	
2,4,5-T	15.3	2.7	µg/kg dry	13.3	ND	115	30-150	0.671	30	V-06
2,4,5-T [2C]	16.2	2.7	µg/kg dry	13.3	ND	121	30-150	4.84	30	
Dalapon	218	67	µg/kg dry	333	ND	65.6	30-150	7.23	30	
Dalapon [2C]	259	67	µg/kg dry	333	ND	77.9	30-150	9.84	30	
Dicamba	13.4	2.7	µg/kg dry	13.3	ND	101	30-150	0.636	30	
Dicamba [2C]	16.8	2.7	µg/kg dry	13.3	ND	126	30-150	3.35	30	
Dichloroprop	147	27	µg/kg dry	133	ND	111	30-150	0.0378	30	V-06
Dichloroprop [2C]	179	27	µg/kg dry	133	ND	134	30-150	1.81	30	
Dinoseb	29.0	13	µg/kg dry	66.6	ND	43.6	10-150	1.33	30	V-06
Dinoseb [2C]	24.4	13	µg/kg dry	66.6	ND	36.6	10-150	1.89	30	V-06
MCPA	11800	2700	µg/kg dry	13300	ND	88.4	30-150	4.86	30	
MCPA [2C]	13200	2700	µg/kg dry	13300	ND	99.0	30-150	2.92	30	V-06
MCPP	13600	2700	µg/kg dry	13300	ND	102	30-150	2.82	30	
MCPP [2C]	13100	2700	µg/kg dry	13300	ND	98.3	30-150	2.45	30	V-06
Surrogate: 2,4-Dichlorophenylacetic acid	112		µg/kg dry	107		105	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	140		µg/kg dry	107		131	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205243 - SW-846 3546										
Blank (B205243-BLK1)					Prepared: 06/08/18 Analyzed: 06/11/18					
TPH (C9-C36)	ND	8.1	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.03		mg/Kg wet	3.24		62.7	40-140			
LCS (B205243-BS1)					Prepared: 06/08/18 Analyzed: 06/11/18					
TPH (C9-C36)	21.4	8.2	mg/Kg wet	33.0		64.9	40-140			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.30		78.9	40-140			
LCS Dup (B205243-BSD1)					Prepared: 06/08/18 Analyzed: 06/11/18					
TPH (C9-C36)	21.6	8.3	mg/Kg wet	33.1		65.2	40-140	0.811	30	
Surrogate: 2-Fluorobiphenyl	2.58		mg/Kg wet	3.31		77.8	40-140			
Matrix Spike (B205243-MS1)					Source: 18F0316-14 Prepared: 06/08/18 Analyzed: 06/11/18					
TPH (C9-C36)	25.7	9.4	mg/Kg dry	37.5	6.54	51.2	40-140			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg dry	3.75		72.0	40-140			
Matrix Spike Dup (B205243-MSD1)					Source: 18F0316-14 Prepared: 06/08/18 Analyzed: 06/11/18					
TPH (C9-C36)	25.7	9.2	mg/Kg dry	37.0	6.54	51.7	40-140	0.182	30	
Surrogate: 2-Fluorobiphenyl	2.54		mg/Kg dry	3.70		68.7	40-140			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B206088 - SW-846 3050B

Blank (B206088-BLK1)

Prepared: 06/19/18 Analyzed: 06/20/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B206088-BS1)

Prepared: 06/19/18 Analyzed: 06/20/18

Antimony	59.8	5.0	mg/Kg wet	75.5		79.2	3.8-196			
Arsenic	156	5.0	mg/Kg wet	161		96.7	83.2-116.8			
Barium	278	5.0	mg/Kg wet	260		107	82.7-117.3			
Beryllium	100	0.50	mg/Kg wet	97.6		103	83.4-116.8			
Cadmium	217	0.50	mg/Kg wet	211		103	83.4-116.6			
Chromium	138	1.0	mg/Kg wet	136		102	82.4-117.6			
Lead	105	1.5	mg/Kg wet	111		94.2	83-117.1			
Nickel	95.0	1.0	mg/Kg wet	91.9		103	82.9-117.5			
Selenium	177	10	mg/Kg wet	191		92.8	79.6-120.9			
Silver	44.1	1.0	mg/Kg wet	43.3		102	79.9-119.9			
Thallium	163	5.0	mg/Kg wet	156		105	81.4-119.2			
Vanadium	54.1	2.0	mg/Kg wet	56.7		95.4	79-121.2			
Zinc	187	2.0	mg/Kg wet	199		94.0	81.4-119.1			

LCS Dup (B206088-BSD1)

Prepared: 06/19/18 Analyzed: 06/20/18

Antimony	59.3	5.0	mg/Kg wet	75.5		78.6	3.8-196	0.751	30	
Arsenic	154	5.0	mg/Kg wet	161		95.8	83.2-116.8	0.929	30	
Barium	264	5.0	mg/Kg wet	260		101	82.7-117.3	5.35	30	
Beryllium	100	0.50	mg/Kg wet	97.6		103	83.4-116.8	0.0311	30	
Cadmium	213	0.50	mg/Kg wet	211		101	83.4-116.6	1.86	30	
Chromium	136	1.0	mg/Kg wet	136		100	82.4-117.6	1.53	30	
Lead	103	1.5	mg/Kg wet	111		93.1	83-117.1	1.22	30	
Nickel	93.5	1.0	mg/Kg wet	91.9		102	82.9-117.5	1.55	30	
Selenium	174	10	mg/Kg wet	191		91.2	79.6-120.9	1.70	30	
Silver	43.9	1.0	mg/Kg wet	43.3		101	79.9-119.9	0.356	30	
Thallium	159	5.0	mg/Kg wet	156		102	81.4-119.2	2.56	30	
Vanadium	53.9	2.0	mg/Kg wet	56.7		95.1	79-121.2	0.246	30	
Zinc	188	2.0	mg/Kg wet	199		94.5	81.4-119.1	0.525	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206088 - SW-846 3050B										
MRL Check (B206088-MRL1)					Prepared: 06/19/18 Analyzed: 06/20/18					
Lead	0.469	0.49	mg/Kg wet	0.488		96.1	80-120			
Batch B206091 - SW-846 7471										
Blank (B206091-BLK1)					Prepared: 06/19/18 Analyzed: 06/20/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B206091-BS1)					Prepared: 06/19/18 Analyzed: 06/20/18					
Mercury	10.0	1.9	mg/Kg wet	9.36		107	73.7-126.3			
LCS Dup (B206091-BSD1)					Prepared: 06/19/18 Analyzed: 06/20/18					
Mercury	9.88	1.9	mg/Kg wet	9.36		106	73.7-126.3	1.21	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205232 - SW-846 9045C										
LCS (B205232-BS1)				Prepared & Analyzed: 06/07/18						
pH	6.05		pH Units	6.00		101	90-110			
LCS (B205232-BS2)				Prepared & Analyzed: 06/07/18						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B205232-DUP2)				Source: 18F0316-17		Prepared & Analyzed: 06/07/18				
pH	5.3		pH Units		5.3			0.190	5	H-03
Batch B205335 - SW-846 9045C										
LCS (B205335-BS1)				Prepared & Analyzed: 06/09/18						
pH	5.97		pH Units	6.00		99.5	90-110			
Duplicate (B205335-DUP1)				Source: 18F0316-12		Prepared & Analyzed: 06/09/18				
pH	5.2		pH Units		5.2			0.194	5	H-03
Batch B205377 - % Solids										
Duplicate (B205377-DUP5)				Source: 18F0316-15		Prepared & Analyzed: 06/11/18				
% Solids	83.4		% Wt		82.7			0.912	20	
Batch B205401 - SW-846 9014										
Blank (B205401-BLK1)				Prepared: 06/11/18 Analyzed: 06/13/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B205401-BS1)				Prepared: 06/11/18 Analyzed: 06/13/18						
Reactive Cyanide	9.5	0.40	mg/Kg	10.0		95.4	83.6-111			
Batch B205488 - SW-846 9030A										
Blank (B205488-BLK1)				Prepared: 06/12/18 Analyzed: 06/13/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B205488-BS1)				Prepared: 06/12/18 Analyzed: 06/13/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	54.9-121			
Batch B205963 - SM21-22 2510B Modified										
Blank (B205963-BLK1)				Prepared & Analyzed: 06/18/18						
Specific conductance	ND	2.0	µmhos/cm							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205963 - SM21-22 2510B Modified										
LCS (B205963-BS1)				Prepared & Analyzed: 06/18/18						
Specific conductance	200		µmhos/cm	192		104	90-110			
Duplicate (B205963-DUP1)		Source: 18F0316-04		Prepared & Analyzed: 06/18/18						
Specific conductance	3.7	2.0	µmhos/cm		4.7			23.4	* 21	R-04
Batch B206094 - SM21-22 2510B Modified										
Blank (B206094-BLK1)				Prepared & Analyzed: 06/19/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B206094-BS1)				Prepared & Analyzed: 06/19/18						
Specific conductance	200		µmhos/cm	192		103	90-110			
Duplicate (B206094-DUP1)		Source: 18F0316-12		Prepared & Analyzed: 06/19/18						
Specific conductance	5.6	2.0	µmhos/cm		6.7			17.9	21	
Batch B206096 - SW-846 9014										
Blank (B206096-BLK1)				Prepared: 06/19/18 Analyzed: 06/20/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B206096-BS1)				Prepared: 06/19/18 Analyzed: 06/20/18						
Reactive Cyanide	11	0.40	mg/Kg	10.0		106	83.6-111			
Batch B206097 - SW-846 9030A										
Blank (B206097-BLK1)				Prepared: 06/19/18 Analyzed: 06/20/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B206097-BS1)				Prepared: 06/19/18 Analyzed: 06/20/18						
Reactive Sulfide	13	2.0	mg/Kg	14.8		89.2	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S024212-PEM1 **Analyzed:** 06/12/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.02
Endrin [1]	1.63

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.81
Endrin [2]	2.17

BREAKDOWN REPORT

Lab Sample ID: S024212-PEM2 **Analyzed:** 06/12/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.91
Endrin [1]	2.24

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.71
Endrin [2]	3.26

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B205228-BS1 Date(s) Analyzed: 06/08/2018 06/08/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B205228-BSD1 Date(s) Analyzed: 06/08/2018 06/08/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.18	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B205229-BS1 Date(s) Analyzed: 06/12/2018 06/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.741	6.711	6.771	0.12	
	2	6.777	6.746	6.806	0.10	18.2
4,4'-DDE	1	6.329	6.299	6.359	0.12	
	2	6.371	6.340	6.400	0.095	23.3
4,4'-DDT	1	6.943	6.913	6.973	0.12	
	2	7.003	6.973	7.033	0.12	0.0
Alachlor	1	5.812	5.782	5.842	0.12	
	2	5.627	5.597	5.657	0.11	8.7
Aldrin	1	5.713	5.682	5.742	0.11	
	2	5.664	5.634	5.694	0.11	8.7
alpha-BHC	1	5.088	5.057	5.117	0.11	
	2	5.053	5.023	5.083	0.11	0.0
alpha-Chlordane	1	6.265	6.235	6.295	0.11	
	2	6.240	6.210	6.270	0.11	0.0
beta-BHC	1	5.312	5.282	5.342	0.11	
	2	5.290	5.260	5.320	0.12	8.7
delta-BHC	1	5.411	5.381	5.441	0.12	
	2	5.451	5.420	5.480	0.095	23.3
Dieldrin	1	6.516	6.485	6.545	0.11	
	2	6.457	6.426	6.486	0.12	8.7
Endosulfan I	1	6.352	6.321	6.381	0.11	
	2	6.271	6.241	6.301	0.11	0.0
Endosulfan II	1	6.832	6.802	6.862	0.12	
	2	6.818	6.787	6.847	0.090	28.6
Endosulfan Sulfate	1	7.463	7.431	7.491	0.11	
	2	7.278	7.248	7.308	0.11	0.0
Endrin	1	6.675	6.643	6.703	0.12	
	2	6.663	6.633	6.693	0.11	8.7
Endrin Aldehyde	1	7.138	7.107	7.167	0.12	
	2	7.069	7.038	7.098	0.096	22.2
Endrin Ketone	1	7.670	7.639	7.699	0.12	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B205229-BS1 Date(s) Analyzed: 06/12/2018 06/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.668	7.638	7.698	0.097	21.2
gamma-BHC (Lindane)	1	5.262	5.231	5.291	0.11	
	2	5.240	5.209	5.269	0.10	9.5
gamma-Chlordane	1	6.177	6.147	6.207	0.11	
	2	6.143	6.113	6.173	0.11	0.0
Heptachlor	1	5.534	5.504	5.564	0.11	
	2	5.480	5.449	5.509	0.11	0.0
Heptachlor Epoxide	1	6.095	6.065	6.125	0.11	
	2	6.020	5.990	6.050	0.11	0.0
Hexachlorobenzene	1	4.996	4.966	5.026	0.12	
	2	4.976	4.946	5.006	0.12	0.0
Methoxychlor	1	7.320	7.289	7.349	0.12	
	2	7.543	7.513	7.573	0.12	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B205229-BSD1 Date(s) Analyzed: 06/12/2018 06/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.742	6.711	6.771	0.11	
	2	6.777	6.746	6.806	0.10	9.5
4,4'-DDE	1	6.330	6.299	6.359	0.10	
	2	6.371	6.340	6.400	0.099	1.0
4,4'-DDT	1	6.944	6.913	6.973	0.11	
	2	7.003	6.973	7.033	0.098	11.5
Alachlor	1	5.812	5.782	5.842	0.12	
	2	5.627	5.597	5.657	0.12	0.0
Aldrin	1	5.713	5.682	5.742	0.099	
	2	5.664	5.634	5.694	0.099	0.0
alpha-BHC	1	5.088	5.057	5.117	0.094	
	2	5.052	5.023	5.083	0.092	2.2
alpha-Chlordane	1	6.266	6.235	6.295	0.098	
	2	6.240	6.210	6.270	0.096	2.1
beta-BHC	1	5.312	5.282	5.342	0.093	
	2	5.290	5.260	5.320	0.10	7.3
delta-BHC	1	5.412	5.381	5.441	0.10	
	2	5.450	5.420	5.480	0.087	13.9
Dieldrin	1	6.517	6.485	6.545	0.10	
	2	6.457	6.426	6.486	0.10	0.0
Endosulfan I	1	6.353	6.321	6.381	0.094	
	2	6.271	6.241	6.301	0.096	2.1
Endosulfan II	1	6.833	6.802	6.862	0.10	
	2	6.818	6.787	6.847	0.094	6.2
Endosulfan Sulfate	1	7.464	7.431	7.491	0.10	
	2	7.278	7.248	7.308	0.10	0.0
Endrin	1	6.675	6.643	6.703	0.10	
	2	6.662	6.633	6.693	0.097	3.1
Endrin Aldehyde	1	7.139	7.107	7.167	0.10	
	2	7.068	7.038	7.098	0.092	8.3
Endrin Ketone	1	7.671	7.639	7.699	0.10	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B205229-BSD1 Date(s) Analyzed: 06/12/2018 06/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.668	7.638	7.698	0.097	3.1
gamma-BHC (Lindane)	1	5.262	5.231	5.291	0.095	
	2	5.239	5.209	5.269	0.090	5.4
gamma-Chlordane	1	6.178	6.147	6.207	0.097	
	2	6.144	6.113	6.173	0.097	0.0
Heptachlor	1	5.535	5.504	5.564	0.093	
	2	5.480	5.449	5.509	0.096	3.2
Heptachlor Epoxide	1	6.096	6.065	6.125	0.097	
	2	6.020	5.990	6.050	0.097	0.0
Hexachlorobenzene	1	4.996	4.966	5.026	0.10	
	2	4.976	4.946	5.006	0.10	0.0
Methoxychlor	1	7.321	7.289	7.349	0.11	
	2	7.543	7.513	7.573	0.10	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS

Lab Sample ID: B205237-BS1 Date(s) Analyzed: 06/14/2018 06/14/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.800	0.000	0.000	14.0	
	2	16.478	0.000	0.000	14.2	1.4
2,4,5-TP (Silvex)	1	16.323	0.000	0.000	13.8	
	2	15.620	0.000	0.000	14.2	1.4
2,4-D	1	14.422	0.000	0.000	139	
	2	13.850	0.000	0.000	153	8.9
2,4-DB	1	17.267	0.000	0.000	139	
	2	17.068	0.000	0.000	138	1.4
Dalapon	1	4.855	0.000	0.000	237	
	2	4.323	0.000	0.000	249	3.7
Dicamba	1	12.226	0.000	0.000	13.1	
	2	11.598	0.000	0.000	15.2	15.6
Dichloroprop	1	13.898	0.000	0.000	137	
	2	13.158	0.000	0.000	155	10.2
Dinoseb	1	17.849	0.000	0.000	20.6	
	2	17.277	0.000	0.000	20.2	3.9
MCPA	1	13.074	0.000	0.000	13300	
	2	12.452	0.000	0.000	12800	1.6
MCPD	1	12.731	0.000	0.000	13000	
	2	11.942	0.000	0.000	13100	0.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8151A

Lab Sample ID: B205237-BSD1 Date(s) Analyzed: 06/14/2018 06/14/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.800	0.000	0.000	12.4	
	2	16.477	0.000	0.000	12.8	6.5
2,4,5-TP (Silvex)	1	16.323	0.000	0.000	12.2	
	2	15.620	0.000	0.000	13.1	8.8
2,4-D	1	14.422	0.000	0.000	123	
	2	13.850	0.000	0.000	133	10.3
2,4-DB	1	17.266	0.000	0.000	122	
	2	17.068	0.000	0.000	125	4.1
Dalapon	1	4.856	0.000	0.000	182	
	2	4.325	0.000	0.000	194	7.5
Dicamba	1	12.226	0.000	0.000	11.7	
	2	11.597	0.000	0.000	13.7	13.2
Dichloroprop	1	13.898	0.000	0.000	121	
	2	13.157	0.000	0.000	142	16.8
Dinoseb	1	17.849	0.000	0.000	17.0	
	2	17.277	0.000	0.000	17.1	0.6
MCPA	1	13.073	0.000	0.000	11100	
	2	12.449	0.000	0.000	11400	3.6
MCPD	1	12.730	0.000	0.000	11200	
	2	11.939	0.000	0.000	11700	6.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8151A

Lab Sample ID: B205237-MS1 Date(s) Analyzed: 06/15/2018 06/15/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.795	0.000	0.000	15.2	
	2	16.473	0.000	0.000	17.0	12.5
2,4,5-TP (Silvex)	1	16.317	0.000	0.000	15.0	
	2	15.616	0.000	0.000	16.7	10.7
2,4-D	1	14.416	0.000	0.000	153	
	2	13.846	0.000	0.000	186	21.4
2,4-DB	1	17.259	0.000	0.000	166	
	2	17.063	0.000	0.000	181	6.3
Dalapon	1	4.853	0.000	0.000	235	
	2	4.322	0.000	0.000	286	17.5
Dicamba	1	12.221	0.000	0.000	13.3	
	2	11.594	0.000	0.000	17.4	28.9
Dichloroprop	1	13.891	0.000	0.000	147	
	2	13.154	0.000	0.000	182	19.3
Dinoseb	1	17.838	0.000	0.000	28.6	
	2	17.271	0.000	0.000	24.9	15.2
MCPA	1	13.070	0.000	0.000	12400	
	2	12.447	0.000	0.000	13600	12.5
MCPD	1	12.726	0.000	0.000	13200	
	2	11.937	0.000	0.000	12800	1.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B205237-MSD1 Date(s) Analyzed: 06/15/2018 06/15/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.795	0.000	0.000	15.3	
	2	16.472	0.000	0.000	16.2	7.7
2,4,5-TP (Silvex)	1	16.318	0.000	0.000	14.9	
	2	15.615	0.000	0.000	16.6	10.1
2,4-D	1	14.417	0.000	0.000	151	
	2	13.845	0.000	0.000	181	18.7
2,4-DB	1	17.259	0.000	0.000	160	
	2	17.063	0.000	0.000	178	10.7
Dalapon	1	4.854	0.000	0.000	218	
	2	4.324	0.000	0.000	259	16.3
Dicamba	1	12.221	0.000	0.000	13.4	
	2	11.593	0.000	0.000	16.8	25.5
Dichloroprop	1	13.893	0.000	0.000	147	
	2	13.154	0.000	0.000	179	17.6
Dinoseb	1	17.838	0.000	0.000	29.0	
	2	17.271	0.000	0.000	24.4	17.2
MCPA	1	13.070	0.000	0.000	11800	
	2	12.446	0.000	0.000	13200	9.5
MCPD	1	12.725	0.000	0.000	13600	
	2	11.937	0.000	0.000	13100	6.6

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
 - ND Not Detected
 - RL Reporting Limit is at the level of quantitation (LOQ)
 - DL Detection Limit is the lower limit of detection determined by the MDL study
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- H-03 Sample received after recommended holding time was exceeded.
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - O-32 A dilution was performed as part of the standard analytical procedure.
 - R-04 Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
 - S-12 Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
 - V-04 Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
 - V-06 Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
 - V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
 - V-35 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 600 4-81-045 in Oil</i>	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
<i>SW-846 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC,ME,VA
<i>SW-846 6010C-D in Soil</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

18 F0366

CHAIN OF CUSTODY RECORD

Address: 101 Spruce Street

Phone: 413-525-1341

Project Location: Essex

Project Number: 12910.00

Project Manager: Bill McKinlay

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: Spruce Street / West Village

7-Day 10-Day
 Due Date: 5-day TAT

1-Day 3-Day
 2-Day 4-Day

Format: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: jess@contestlabs.com

Fax To #: 413-525-6405

ANALYSIS REQUESTED									
5	NA								
VOC									

of Containers

Preservation Code

Container Code

Field Filtered

Lab to Filter

Field Filtered

Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code														
1	• B9	5/12/18 8:28			X	S	U														
2	• B10	5/12/18 10:40			X	S	U														
3	• B14	5/13/18 13:52			X	S	U														
4	• SB19	5/13/18 10:16		X	X	S	U														
5	• SB47	5/14/18 9:42		X	X	S	U														
6	• SB45	6/1/18 11:30		X	X	S	U														
7	• SB18	6/1/18 10:35		X	X	S	U														
8	• SB2	6/5/18 9:53		X	X	S	U														
9	• MP10	6/5/18 11:15			X	S	U	X													
10	• MP3	6/5/18 13:00			X	S	U	X													

Comments: 20x rule for TCLP

Run VOCs on samples -04 through -08 and -12 through -17 per Paige C.

ing codes to indicate possible sample concentration within the Conc Code column above:
 Medium; L - Low; C - Clean; U - Unknown

-KKM 6/11/18

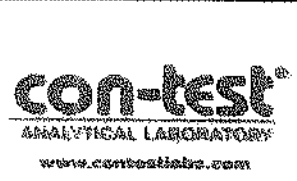
Relinquished by: (signature)	Date/Time: 1245 6/7/18
Received by: (signature)	Date/Time: 6/7/18 12:45 PM
Relinquished by: (signature)	Date/Time: 6/7/18 2:00 PM
Received by: (signature)	Date/Time: 6/7/18 2 PM
Relinquished by: (signature)	Date/Time: 6/7/18 6:30 PM
Received by: (signature)	Date/Time: 6-7-18 19:30

Project Entity

Government Municipality MWRA WRTA

Federal 21 J School

City Brownfield MBTA



¹ Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

² Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

³ Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet

Address: 14 WINDY STREET
Phone: 417-1067-1541
EVERETT
Project Location: HOUSON, MA
Project Number: 12970-00
Project Manager: PAIGE MOLONEY
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: PAIGE MOLONEY

7-Day 10-Day
Due Date: 5/21/18

1-Day 3-Day
2-Day 4-Day

Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: paigemoloney@contestlabs.com
Fax To #: 413-525-6405

Composites	Grab	Matrix Code	Conc Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		S	U	X	X																		
X	X	S	U	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	S	U	X	X																		
X	X	S	U	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

of Containers
Preservation Code
Container Code

Field Filtered
Lab to Filter

Field Filtered
Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composites	Grab	Matrix Code	Conc Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
11	MP12	6/4/18	10:00		X	S	U	X	X																		
12	MP24	6/4/18	11:40	X	X	S	U	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	SB17	6/4/18	11:30	X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	SB11 SB43	6/4/18	15:00	X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	SB03	6/5/18	12:14	X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	SBMW24	6/5/18	11:35	X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	SB16	6/1/18	13:25	X	X	S	U			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	B8	6/6/18	9:10		X	S	U	X	X																		
19	B22	6/6/18	9:15		X	S	U	X	X																		
20	B23	6/6/18	10:20		X	S	U	X	X																		

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: ZON FILE FOR TCLP

Run VOCs on samples -04 through -08 and -12 through -17 per Paige C. -KKM 6/11/18

Sample -14 i.d. should be SB43 per Paige C. -KKM 6/11/18

Relinquished by: (signature) [Signature] Date/Time: 6/7/18 12:45
Received by: (signature) [Signature] Date/Time: 6/7/18 12:45 PM
Relinquished by: (signature) [Signature] Date/Time: 6/7/18 2:00 PM
Received by: (signature) [Signature] Date/Time: 6/7/18 2:24 PM
Relinquished by: (signature) [Signature] Date/Time: 6/7/18 6:30 AM
Received by: (signature) [Signature] Date/Time: 6-7-18 10:30

MCP Certification Form Required
CT RCP Required
RCP Certification Form Required
MA State DMV Required
PWSID #Project Entity
 Government Municipality MWRA WRTA
 Federal 21 J School
 City Brownfield MBTA

con-test
ANALYTICAL LABORATORY
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Chromatogram
 AIHA-LAP, LLC

PCB ONLY
 Soxhlet
 Non Soxhlet



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ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client _____

Received By EGP Date 6-5-18 Time 18:30

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5707 Actual Temp -24.20
 By Blank # _____ Actual Temp _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? T Who was notified? LWC

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	22	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	22	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 6-5-18 @ 18:30
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: ---	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458261
Sample ID: ---		
Depth : ---		

Moisture Content of Soil and Rock - ASTM D2216

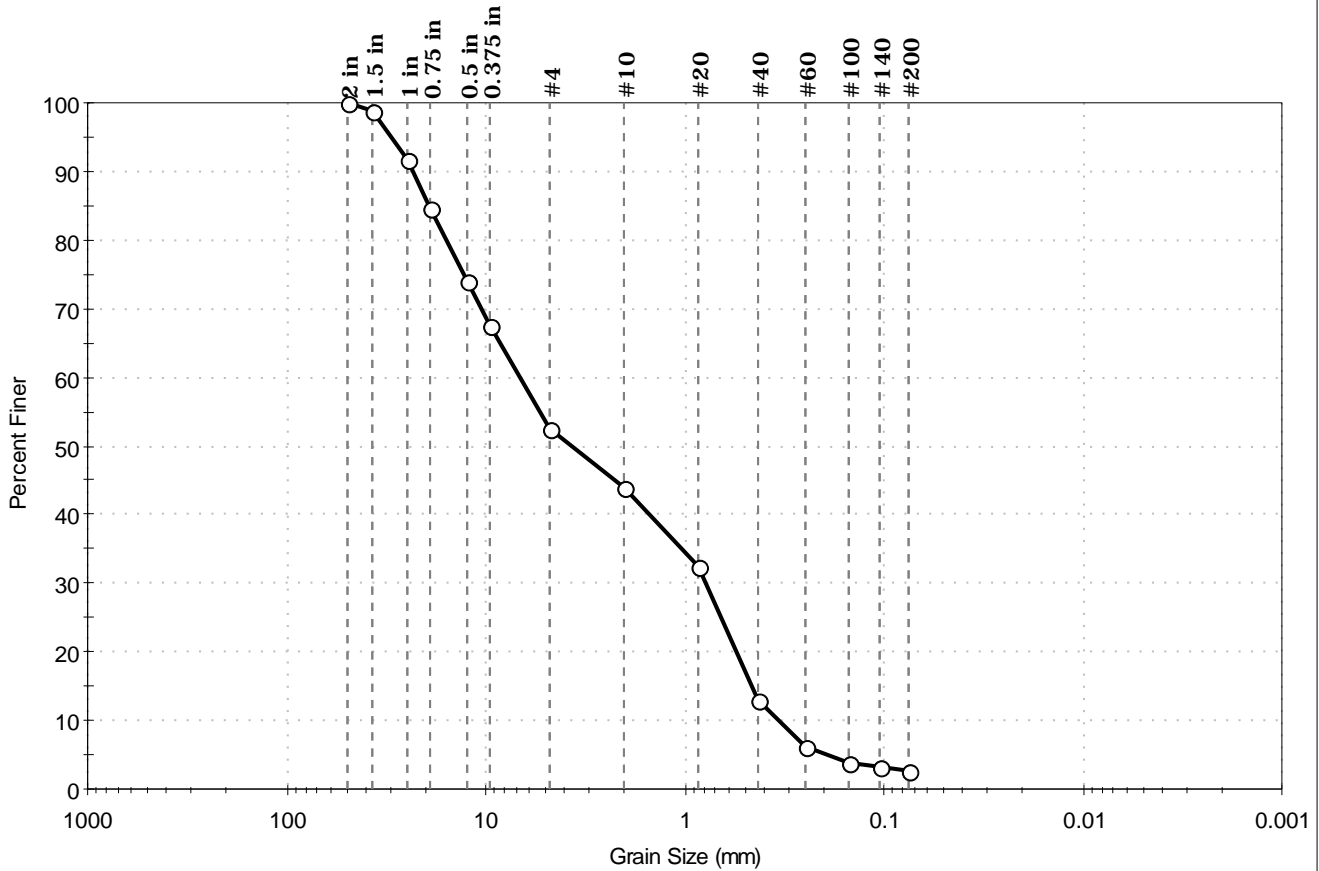
Boring ID	Sample ID	Depth	Description	Moisture Content, %
---	B8	---	Moist, dark brown sand with gravel	3.8
---	B9	---	Moist, very dark gray silty sand	15.1
---	B10	---	Moist, dark brown silty sand with gravel	13.4
---	B14	---	Moist, dark brown silty sand with gravel	12.8
---	B22	---	Moist, grayish brown sand with silt	5.8
---	B23	---	Moist, olive brown silty sand	16.4
---	MP3	---	Moist, dark brown sand with gravel	8.7
---	MP6	---	Moist, brownish yellow silty sand with gravel	9.9
---	MP10	---	Moist, olive yellow silty sand	10.3
---	MP24	---	Moist, brown silty sand	6.2

Notes: Temperature of Drying : 110° Celsius



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458250
Sample ID: B8	Visual Description: Moist, dark brown sand with gravel	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	47.4	50.0	2.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	99		
1 in	25.00	92		
0.75 in	19.00	85		
0.5 in	12.50	74		
0.375 in	9.50	67		
#4	4.75	53		
#10	2.00	44		
#20	0.85	33		
#40	0.42	13		
#60	0.25	6		
#100	0.15	4		
#140	0.11	3		
#200	0.075	2.6		

<u>Coefficients</u>	
D ₈₅ = 19.2366 mm	D ₃₀ = 0.7773 mm
D ₆₀ = 6.7167 mm	D ₁₅ = 0.4586 mm
D ₅₀ = 3.6591 mm	D ₁₀ = 0.3394 mm
C _u = 19.790	C _c = 0.265

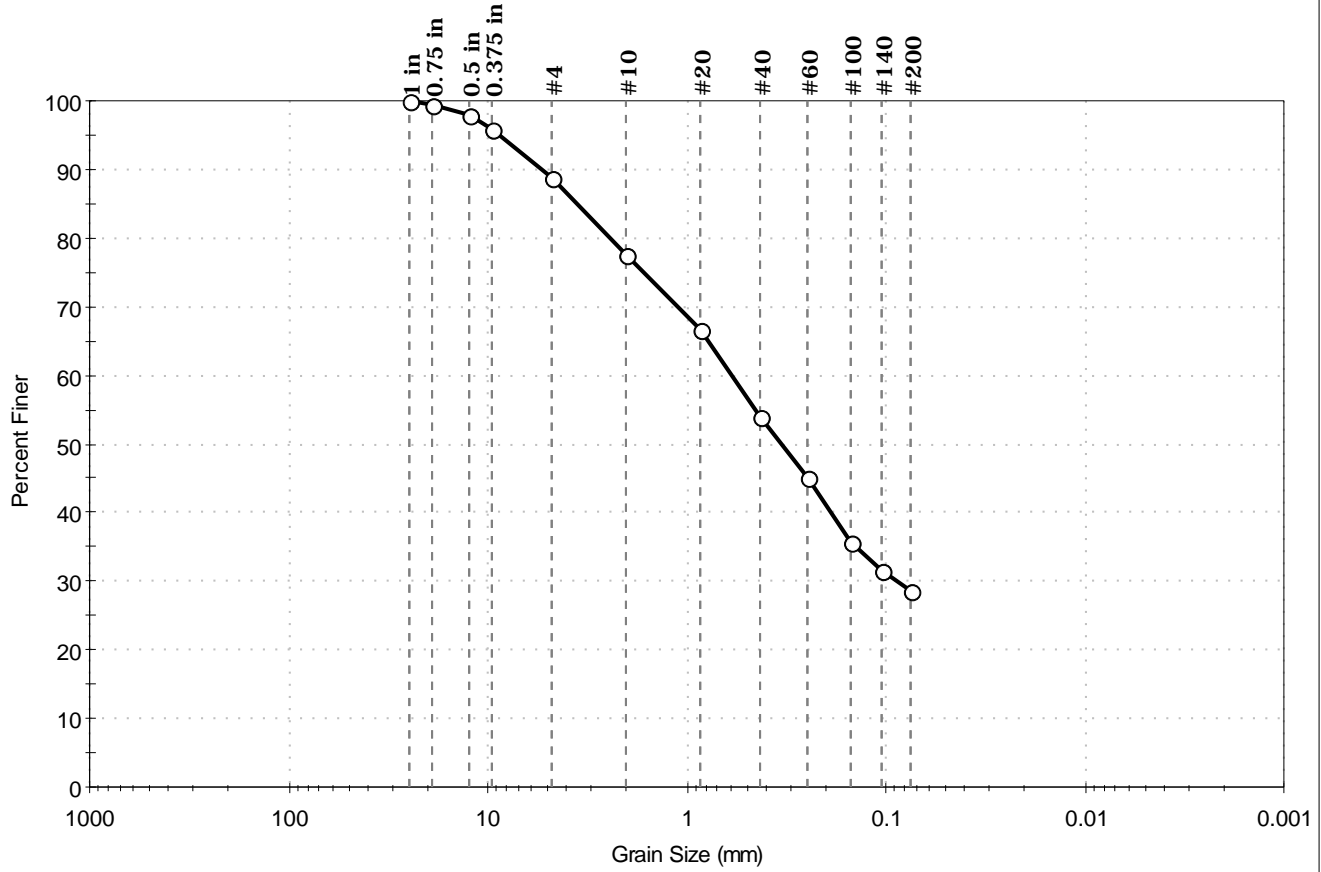
<u>Classification</u>	
<u>ASTM</u>	Poorly graded SAND with Gravel (SP)
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-a (1))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458247
Sample ID: B9	Visual Description: Moist, very dark gray silty sand	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	11.2	60.1	28.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	100		
0.5 in	12.50	98		
0.375 in	9.50	96		
#4	4.75	89		
#10	2.00	78		
#20	0.85	67		
#40	0.42	54		
#60	0.25	45		
#100	0.15	36		
#140	0.11	32		
#200	0.075	29		

<u>Coefficients</u>	
D ₈₅ = 3.5499 mm	D ₃₀ = 0.0880 mm
D ₆₀ = 0.5888 mm	D ₁₅ = N/A
D ₅₀ = 0.3330 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

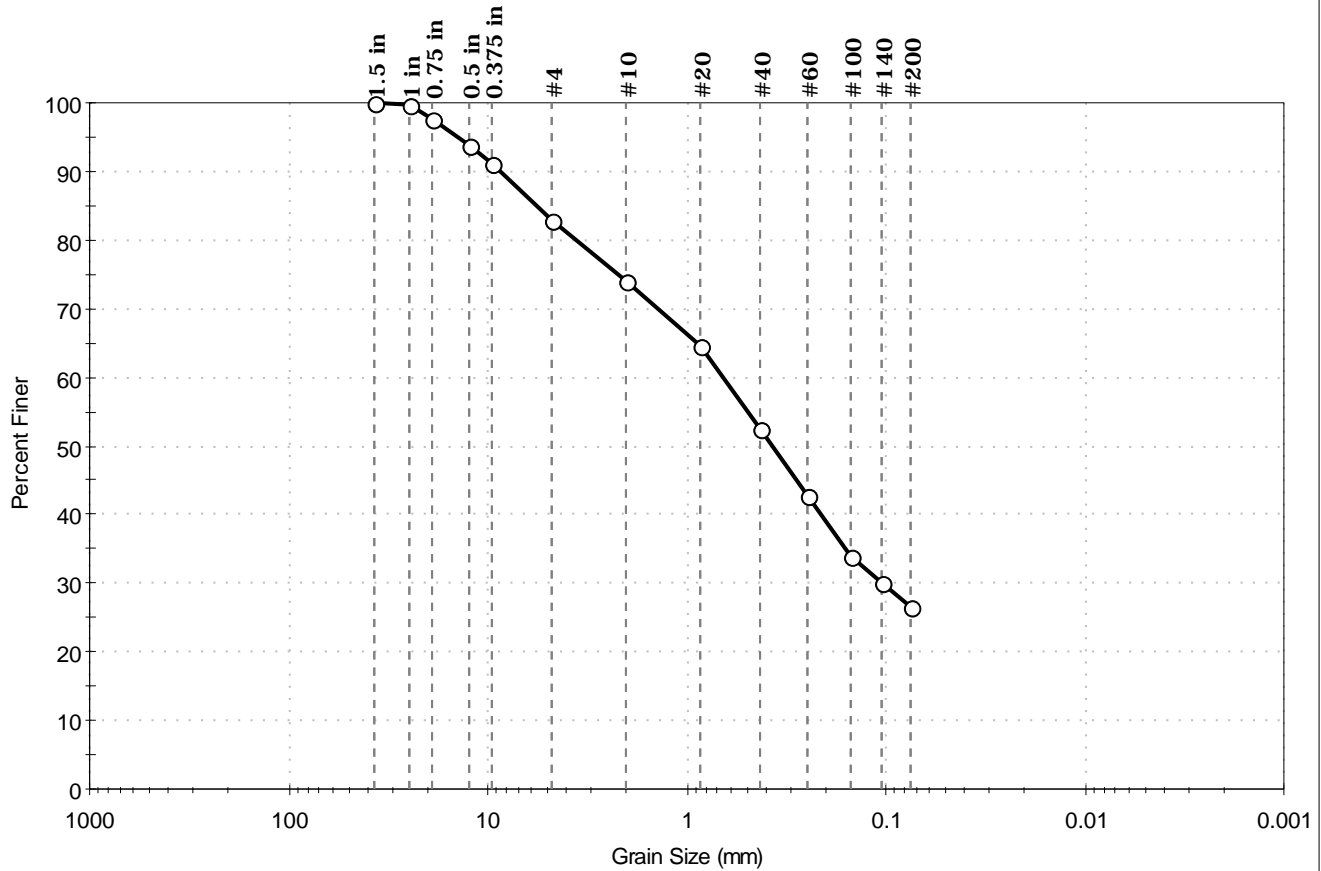
<u>Classification</u>	
ASTM	N/A
AASHTO Silty Gravel and Sand (A-2-4 (0))	

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308312
Project:	18F0316	Tested By:	jbr
Location:	---	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B10	Test Date:	06/19/18
Depth:	---	Test Id:	458246
Test Comment:	---		
Visual Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	17.2	56.2	26.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	98		
0.5 in	12.50	94		
0.375 in	9.50	91		
#4	4.75	83		
#10	2.00	74		
#20	0.85	65		
#40	0.42	52		
#60	0.25	43		
#100	0.15	34		
#140	0.11	30		
#200	0.075	27		

<u>Coefficients</u>	
D ₈₅ = 5.7277 mm	D ₃₀ = 0.1060 mm
D ₆₀ = 0.6505 mm	D ₁₅ = N/A
D ₅₀ = 0.3709 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

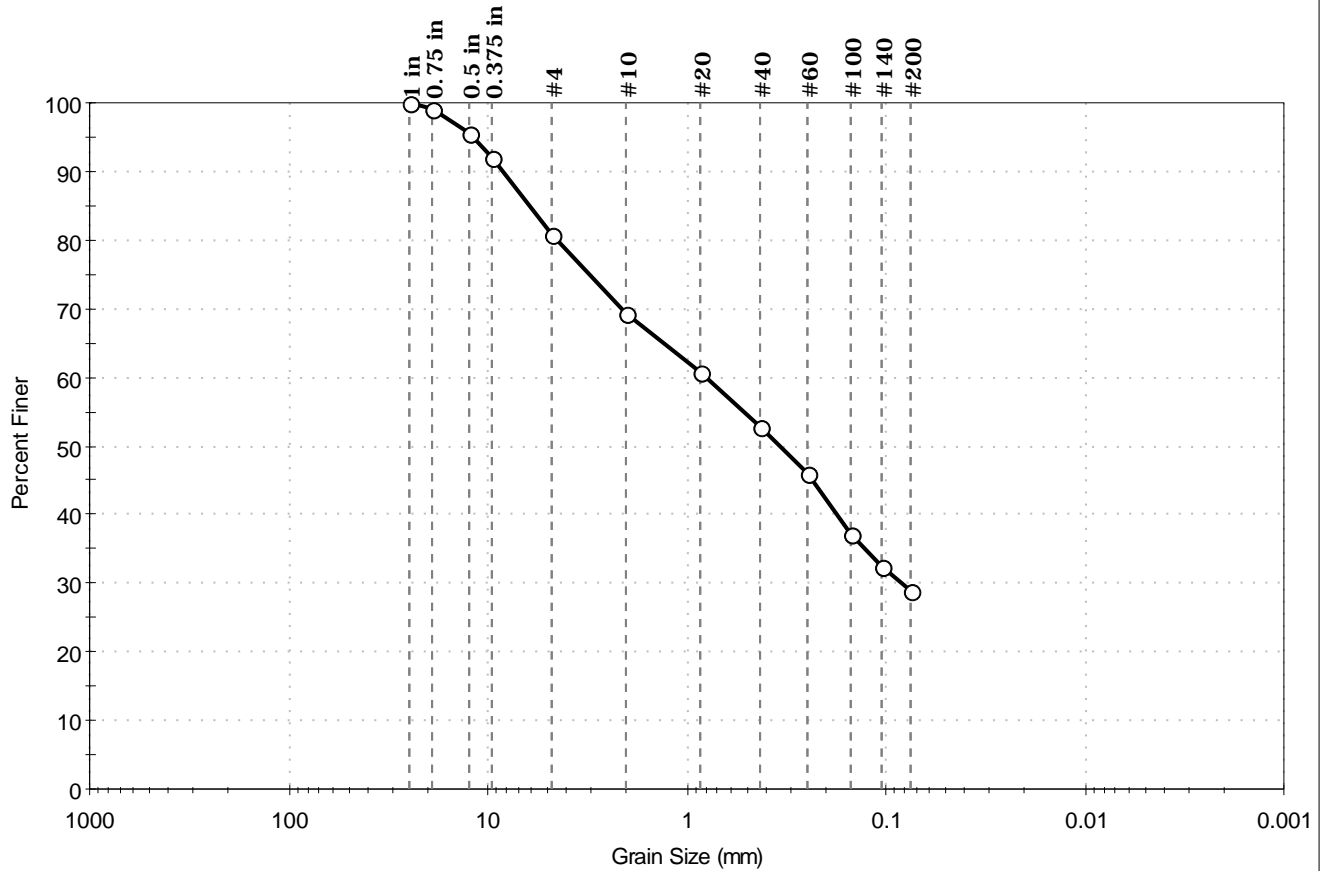
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458245
Sample ID: B14	Visual Description: Moist, dark brown silty sand with gravel	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	19.0	52.1	28.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	96		
0.375 in	9.50	92		
#4	4.75	81		
#10	2.00	69		
#20	0.85	61		
#40	0.42	53		
#60	0.25	46		
#100	0.15	37		
#140	0.11	32		
#200	0.075	29		

<u>Coefficients</u>	
D ₈₅ = 6.1162 mm	D ₃₀ = 0.0837 mm
D ₆₀ = 0.8024 mm	D ₁₅ = N/A
D ₅₀ = 0.3388 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

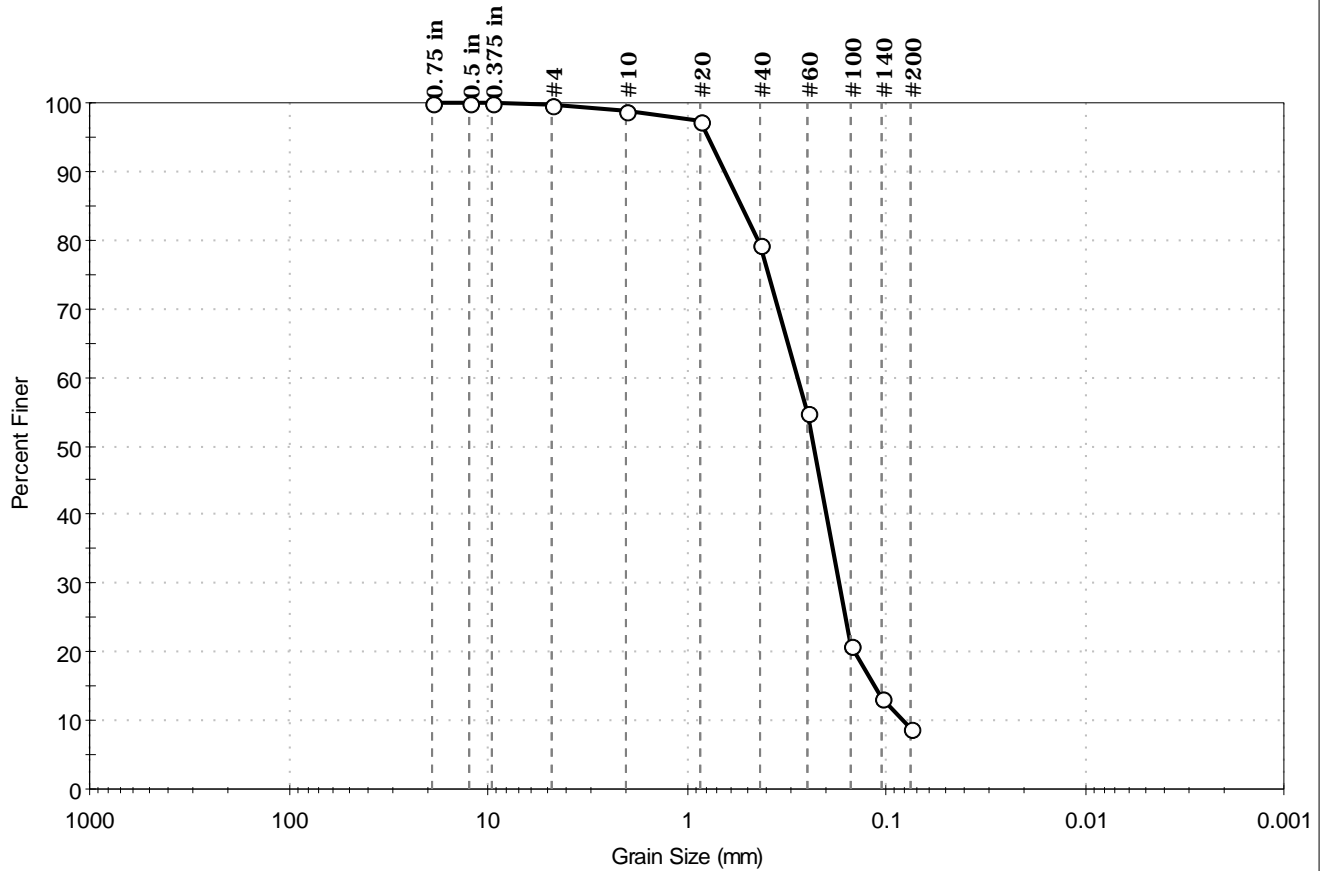
<u>Classification</u>	
ASTM	N/A
AASHTO Silty Gravel and Sand (A-2-4 (0))	

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458249
Sample ID: B22	Visual Description: Moist, grayish brown sand with silt	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.4	90.6	9.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	100		
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	99		
#20	0.85	97		
#40	0.42	79		
#60	0.25	55		
#100	0.15	21		
#140	0.11	13		
#200	0.075	9.0		

Coefficients

D ₈₅ = 0.5307 mm	D ₃₀ = 0.1718 mm
D ₆₀ = 0.2792 mm	D ₁₅ = 0.1150 mm
D ₅₀ = 0.2321 mm	D ₁₀ = 0.0816 mm
C _u = 3.422	C _c = 1.296

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (1))

Sample/Test Description

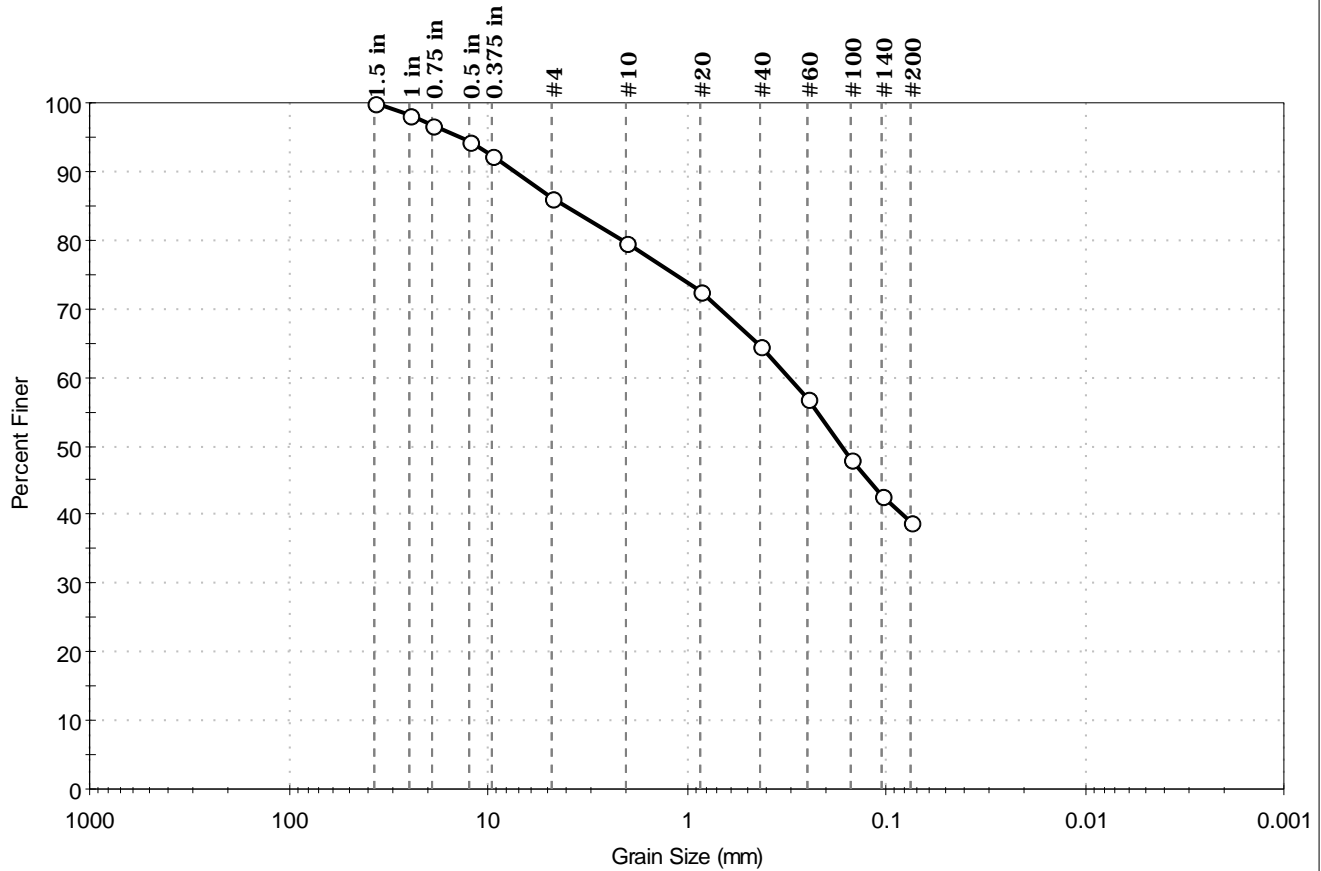
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/27/18	Test Id: 458248
Sample ID: B23	Visual Description: Moist, olive brown silty sand	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	13.8	47.1	39.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	98		
0.75 in	19.00	97		
0.5 in	12.50	94		
0.375 in	9.50	92		
#4	4.75	86		
#10	2.00	80		
#20	0.85	72		
#40	0.42	64		
#60	0.25	57		
#100	0.15	48		
#140	0.11	43		
#200	0.075	39		

<u>Coefficients</u>	
D ₈₅ = 4.0604 mm	D ₃₀ = N/A
D ₆₀ = 0.3095 mm	D ₁₅ = N/A
D ₅₀ = 0.1683 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

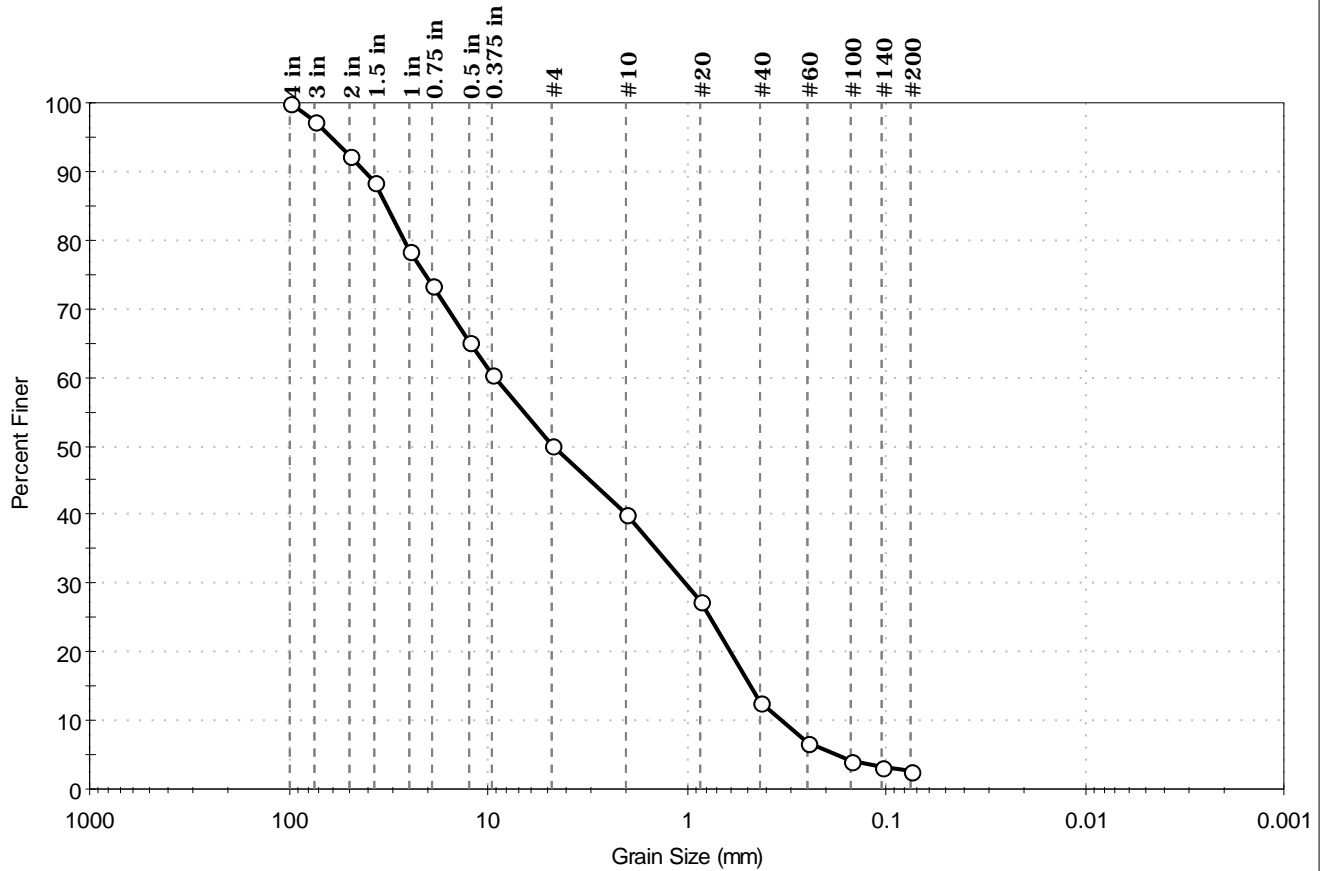
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/19/18	Test Id: 458243
Sample ID: MP3	Test Comment: ---	
Depth: ---	Visual Description: Moist, dark brown sand with gravel	
Sample Comment: ---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
2.6	47.1	47.7	2.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
4 in	100.00	100		
3 in	75.00	97		
2 in	50.00	92		
1.5 in	37.50	89		
1 in	25.00	78		
0.75 in	19.00	73		
0.5 in	12.50	65		
0.375 in	9.50	61		
#4	4.75	50		
#10	2.00	40		
#20	0.85	27		
#40	0.42	13		
#60	0.25	7		
#100	0.15	4		
#140	0.11	3		
#200	0.075	2.6		

<u>Coefficients</u>	
D ₈₅ = 32.5316 mm	D ₃₀ = 1.0160 mm
D ₆₀ = 9.1580 mm	D ₁₅ = 0.4765 mm
D ₅₀ = 4.6475 mm	D ₁₀ = 0.3348 mm
C _u = 27.354	C _c = 0.337

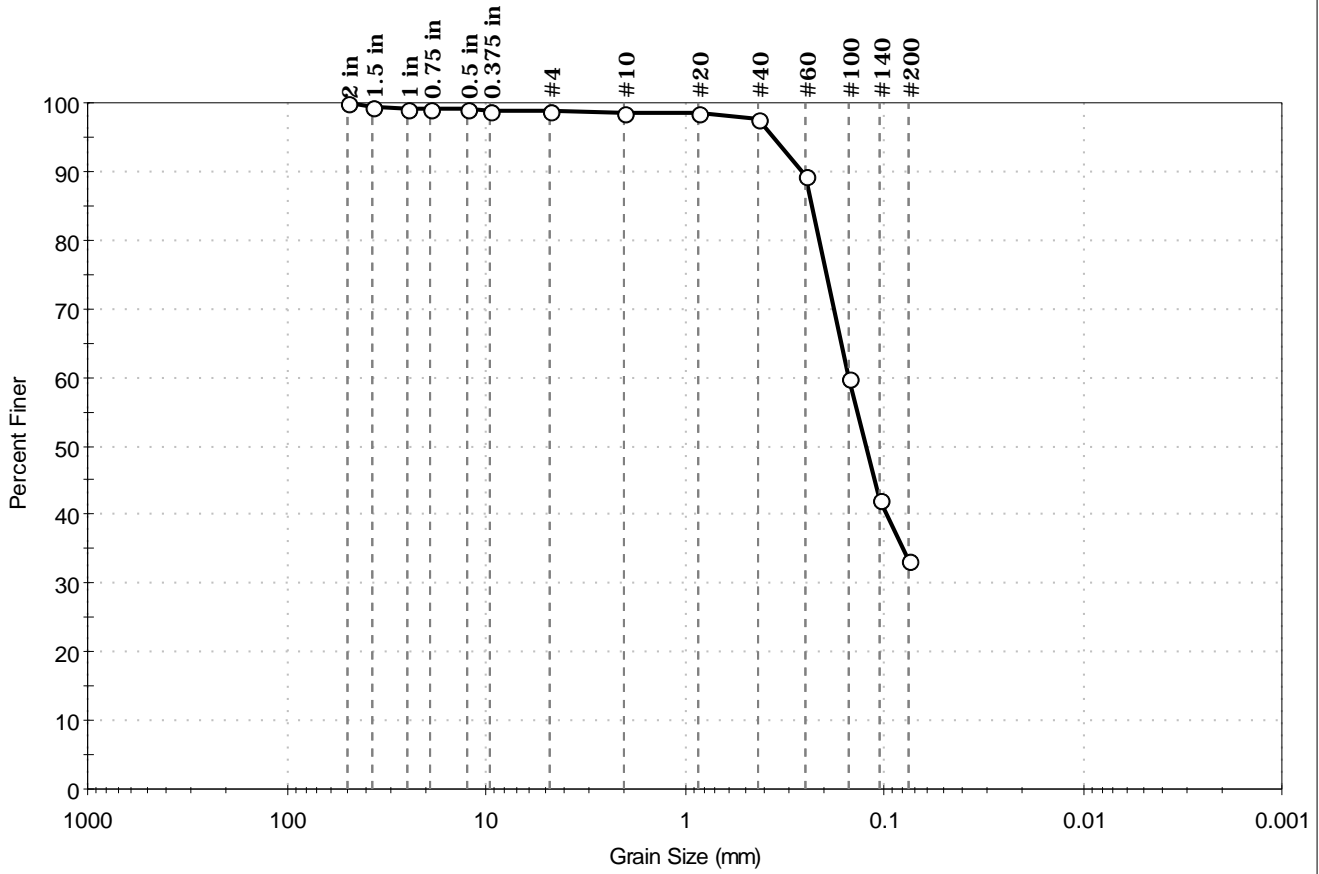
<u>Classification</u>	
ASTM	Poorly graded SAND with Gravel (SP)
AASHTO	Stone Fragments, Gravel and Sand (A-1-a (1))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client: Con-Test Analytical Lab	Project No: GTX-308312	
Project: 18F0316	Tested By: jbr	
Location: ---	Sample Type: bucket	Checked By: emm
Boring ID: ---	Test Date: 06/20/18	Test Id: 458244
Sample ID: MP10	Visual Description: Moist, olive yellow silty sand	
Depth: ---	Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	1.3	65.4	33.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	99		
1 in	25.00	99		
0.75 in	19.00	99		
0.5 in	12.50	99		
0.375 in	9.50	99		
#4	4.75	99		
#10	2.00	99		
#20	0.85	98		
#40	0.42	98		
#60	0.25	89		
#100	0.15	60		
#140	0.11	42		
#200	0.075	33		

Coefficients	
D ₈₅ = 0.2321 mm	D ₃₀ = N/A
D ₆₀ = 0.1500 mm	D ₁₅ = N/A
D ₅₀ = 0.1234 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

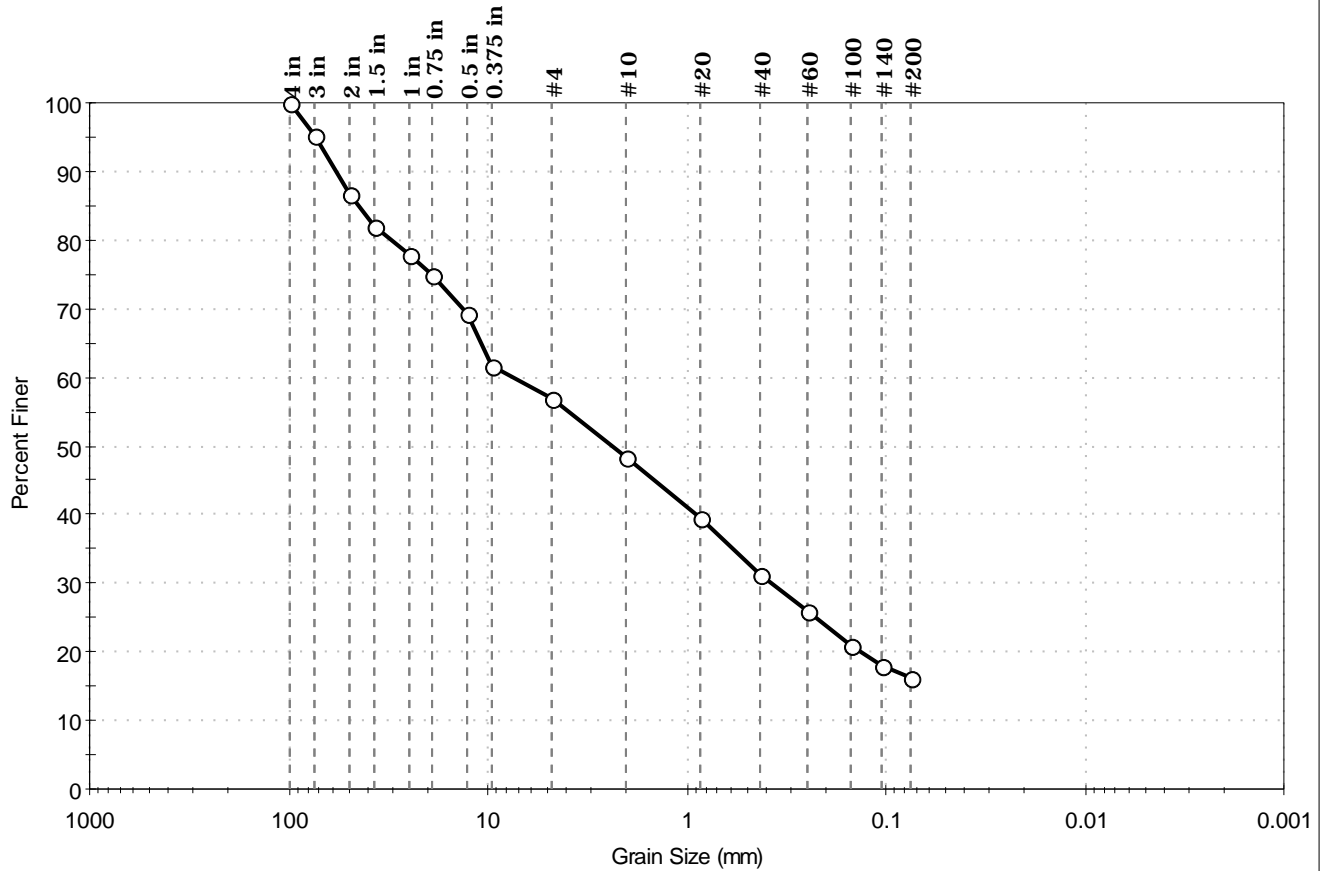
Classification	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client:	Con-Test Analytical Lab		Project No:	GTX-308312	
Project:	18F0316		Tested By:	jbr	
Location:	---	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	06/22/18	Test Id:	458252
Sample ID:	MP6	Visual Description:	Moist, brownish yellow silty sand with gravel		
Depth:	---	Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
4.8	38.4	40.6	16.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
4 in	100.00	100		
3 in	75.00	95		
2 in	50.00	87		
1.5 in	37.50	82		
1 in	25.00	78		
0.75 in	19.00	75		
0.5 in	12.70	69		
0.375 in	9.50	62		
#4	4.75	57		
#10	2.00	48		
#20	0.85	39		
#40	0.42	31		
#60	0.25	26		
#100	0.15	21		
#140	0.11	18		
#200	0.075	16		

<u>Coefficients</u>	
D ₈₅ = 44.8757 mm	D ₃₀ = 0.3723 mm
D ₆₀ = 7.3959 mm	D ₁₅ = N/A
D ₅₀ = 2.3693 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

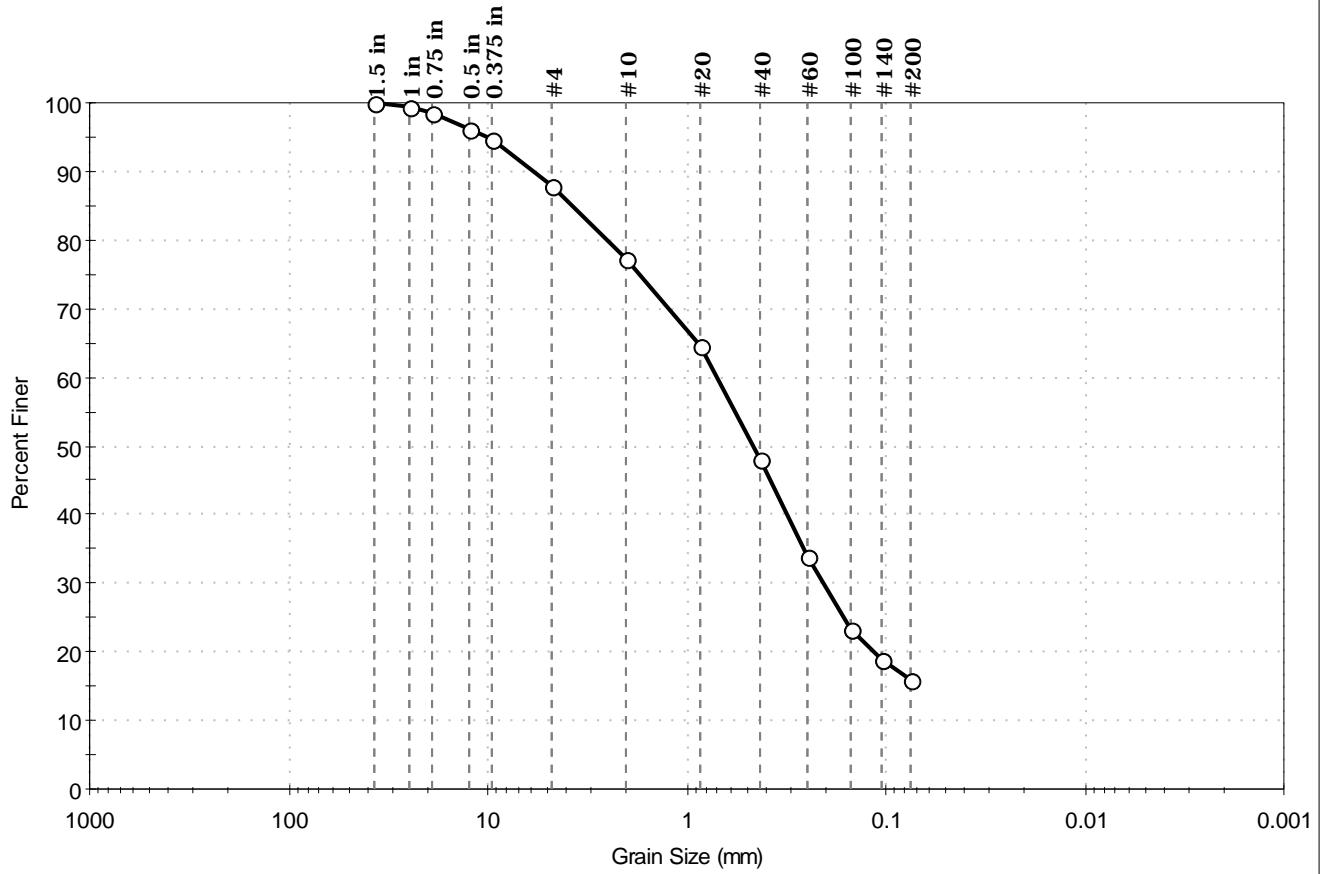
<u>Classification</u>	
<u>ASTM</u>	N/A
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-b (0))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client:	Con-Test Analytical Lab	Project No:	GTX-308312
Project:	18F0316	Tested By:	jbr
Location:	---	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP24	Test Date:	06/19/18
Depth:	---	Test Id:	458251
Test Comment:	---		
Visual Description:	Moist, brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	12.0	72.0	16.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	99		
0.75 in	19.00	99		
0.5 in	12.50	96		
0.375 in	9.50	95		
#4	4.75	88		
#10	2.00	77		
#20	0.85	65		
#40	0.42	48		
#60	0.25	34		
#100	0.15	23		
#140	0.11	19		
#200	0.075	16		

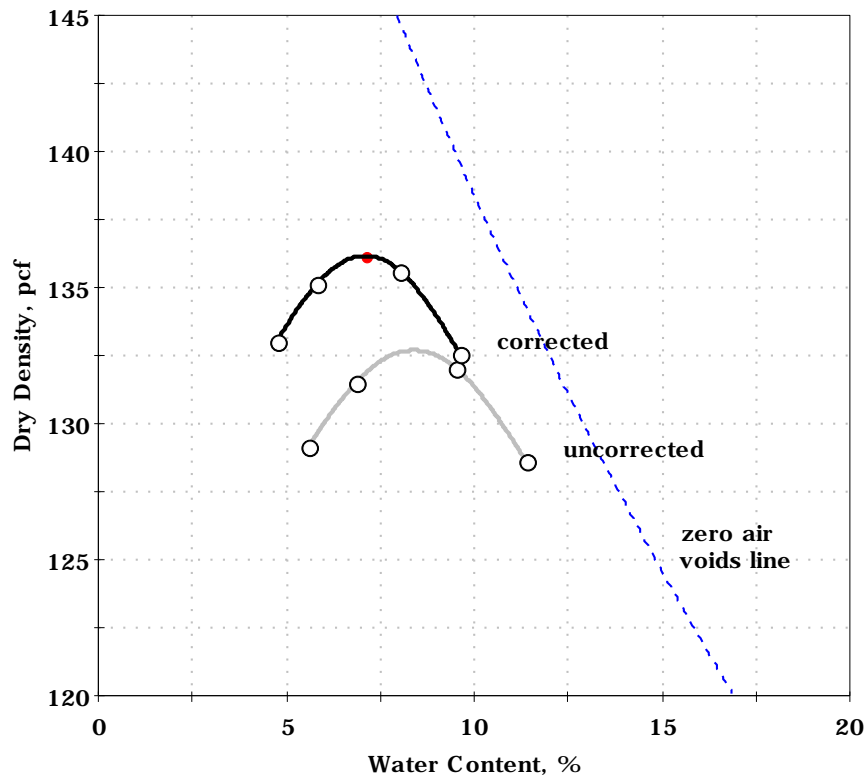
<u>Coefficients</u>	
D ₈₅ = 3.7209 mm	D ₃₀ = 0.2067 mm
D ₆₀ = 0.6993 mm	D ₁₅ = N/A
D ₅₀ = 0.4627 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))	

Sample/Test Description
 Sand/Gravel Particle Shape : ANGULAR
 Sand/Gravel Hardness : HARD

Client:	Con-Test Analytical Lab		Project No:	GTX-308312	
Project:	18F0316		Tested By:	cwd	
Location:	---	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	06/28/18	Test Id:	458270
Sample ID:	B8				
Depth :	---				
Test Comment:	---				
Visual Description:	Moist, dark brown sand with gravel				
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	129.2	131.5	132.1	128.6
Moisture Content, %	5.6	6.9	9.5	11.4

Method : C

Preparation : DRY

As received Moisture : 4 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.85

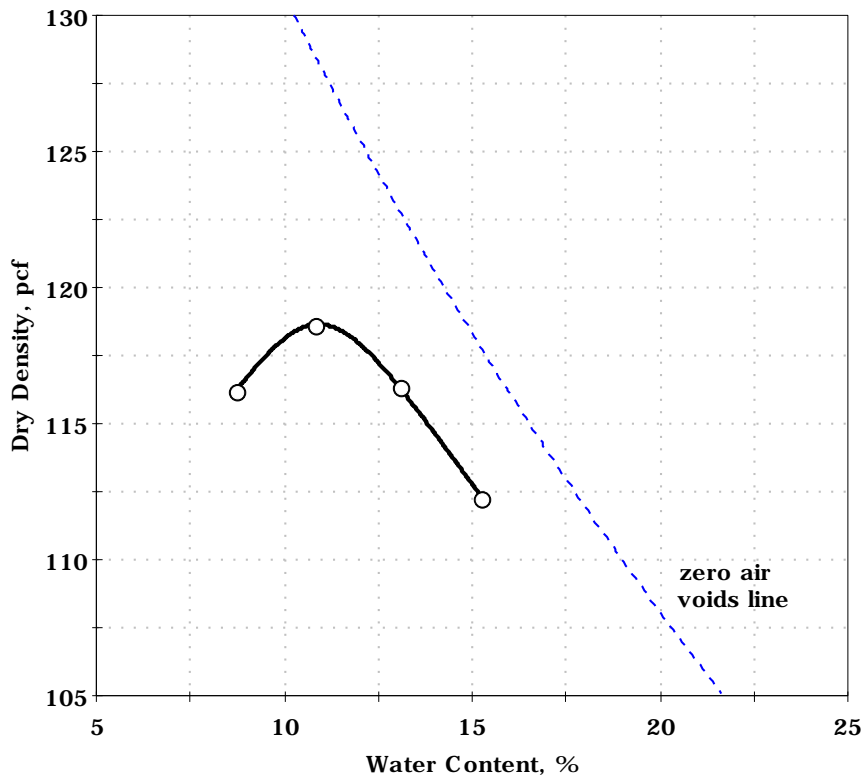
Maximum Dry Density= 132.7 pcf
Optimum Moisture= 8.4 %

Oversize Correction (15% > 3/4 inch Sieve)

Corrected Maximum Dry Density= 136.2 pcf
Corrected Optimum Moisture= 7.1 %
Assumed Average Bulk Specific Gravity = 2.55

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	B9	Test Date:	06/28/18
Depth:	---	Test Id:	458267
Test Comment:	---		
Visual Description:	Moist, very dark gray silty sand		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	116.2	118.7	116.4	112.3
Moisture Content, %	8.7	10.8	13.1	15.2

Method : B

Preparation : DRY

As received Moisture : 15 %

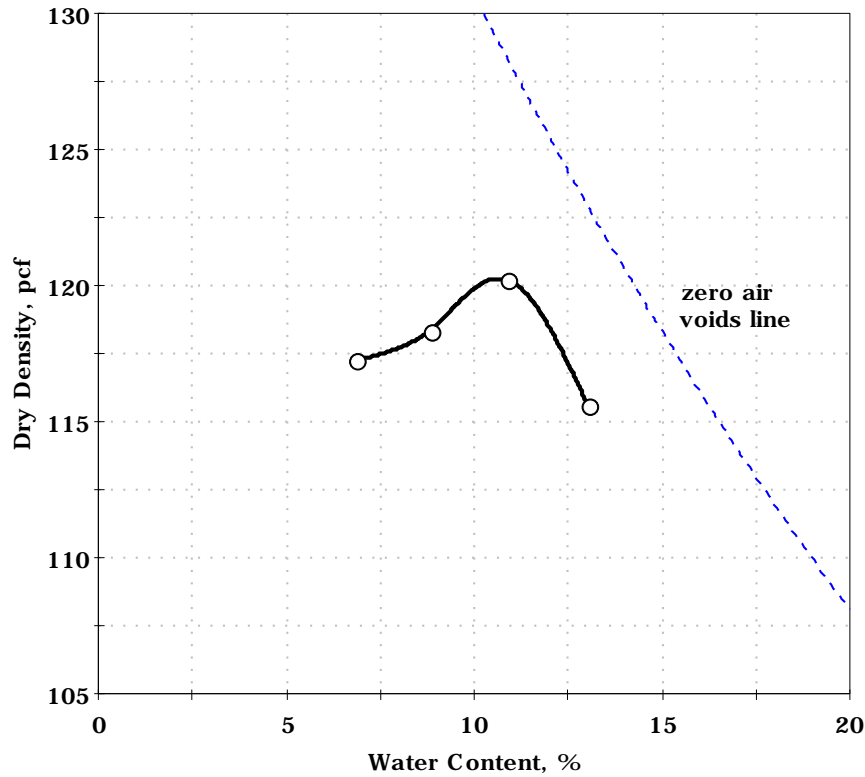
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 118.7 pcf
Optimum Moisture= 10.9 %

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	B10	Test Date:	06/23/18
Depth:	---	Test Id:	458266
Test Comment:	---		
Visual Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	117.2	118.4	120.2	115.6
Moisture Content, %	6.9	8.9	10.9	13.0

Method : C

Preparation : DRY

As received Moisture : 13 %

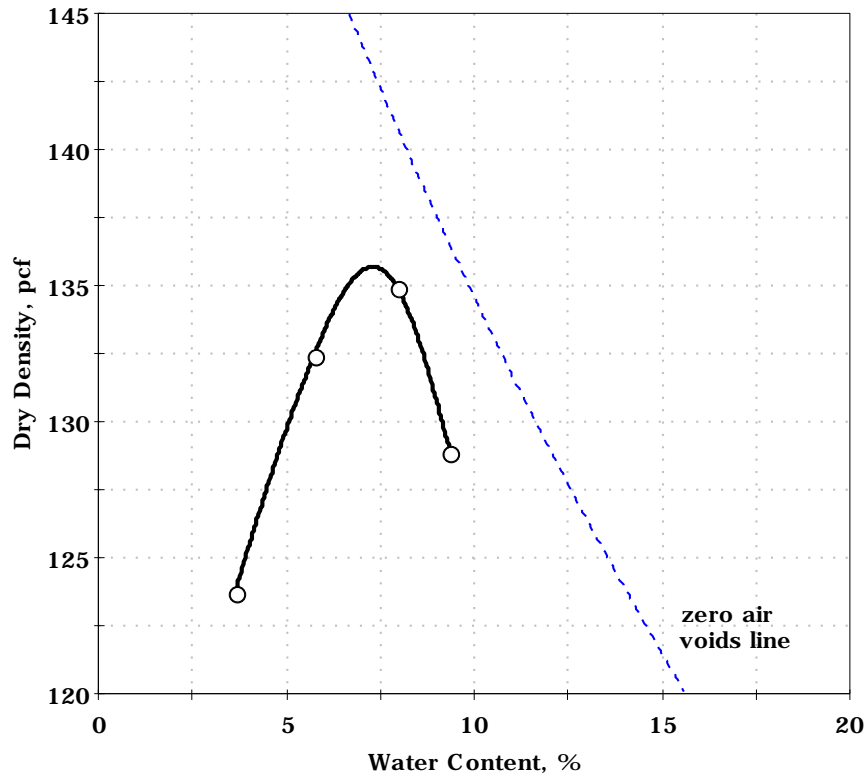
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 120.3 pcf
Optimum Moisture= 10.7 %

Client:	Con-Test Analytical Lab		Project No:	GTX-308312	
Project:	18F0316		Tested By:	cwd	
Location:	---	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	06/26/18	Test Id:	458265
Sample ID:	B14				
Depth :	---				
Test Comment:	---				
Visual Description:	Moist, dark brown silty sand with gravel				
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	123.7	132.4	134.9	128.9
Moisture Content, %	3.6	5.7	8.0	9.4

Method : C

Preparation : DRY

As received Moisture : 13 %

Rammer : Mechanical

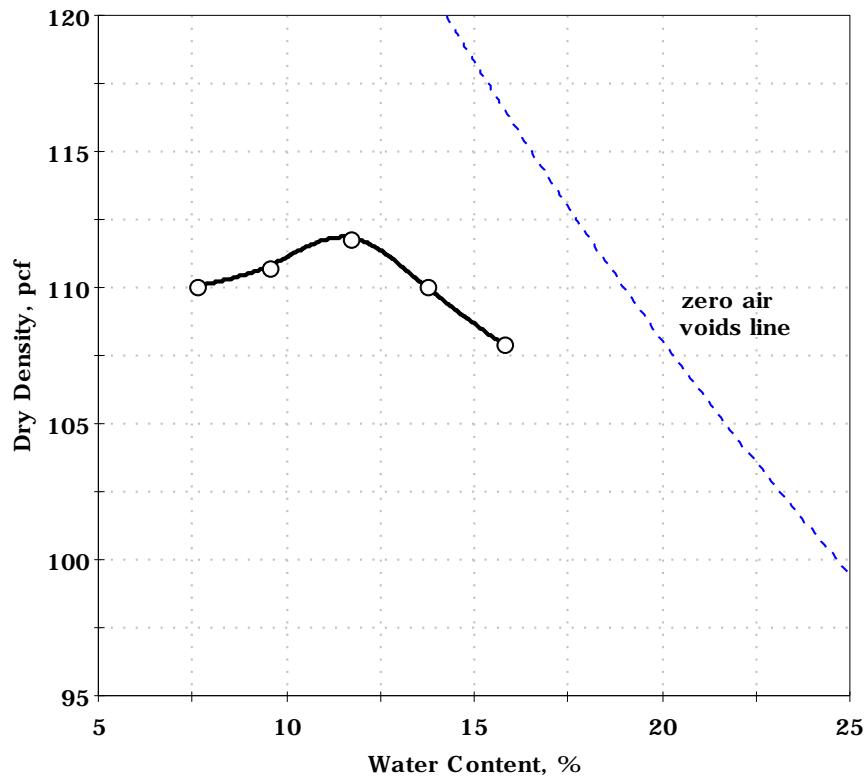
Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 135.7 pcf
Optimum Moisture= 7.3 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308312	
Project:	18F0316		Tested By:	cwd	
Location:	---	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	06/27/18	Test Id:	458269
Sample ID:	B22				
Depth :	---				
Test Comment:	---				
Visual Description:	Moist, grayish brown sand with silt				
Sample Comment:	---				

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	110.0	110.8	111.8	110.1	107.9
Moisture Content, %	7.6	9.5	11.7	13.7	15.7

Method : A

Preparation : DRY

As received Moisture : 6 %

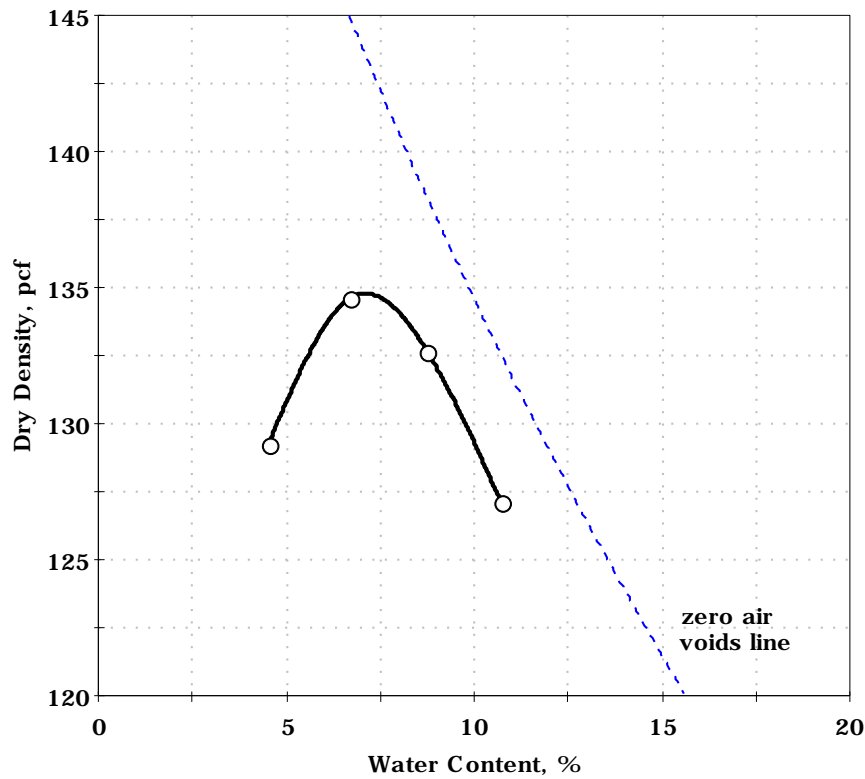
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 111.9 pcf
Optimum Moisture= 11.5 %

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	B23	Test Date:	06/27/18
Depth:	---	Test Id:	458268
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	129.2	134.6	132.7	127.1
Moisture Content, %	4.5	6.7	8.7	10.7

Method : C

Preparation : DRY

As received Moisture : 16 %

Rammer : Mechanical

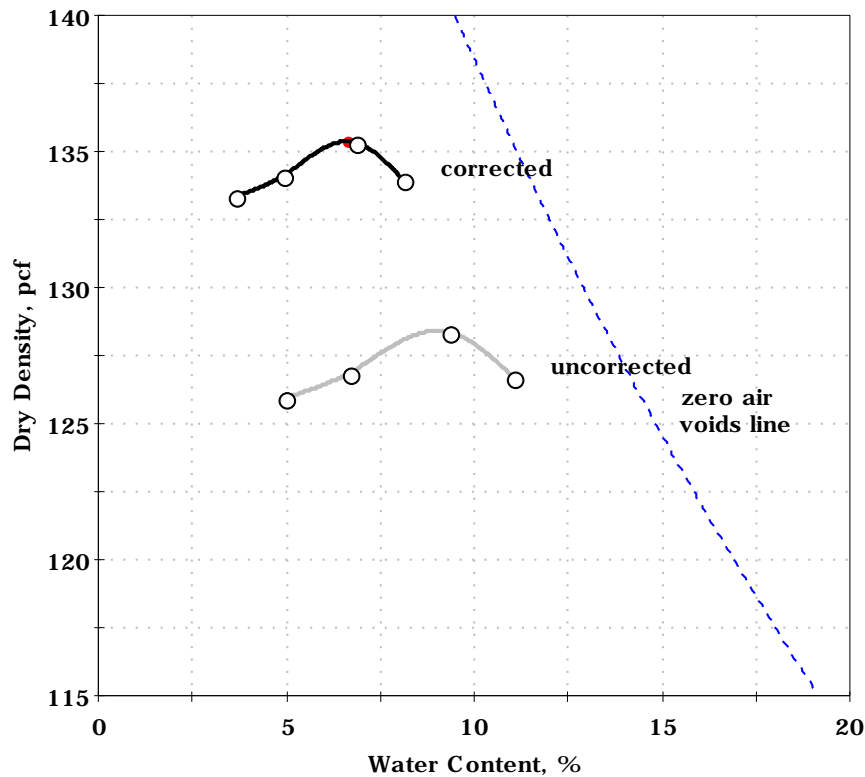
Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 134.8 pcf
Optimum Moisture= 7.1 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308312	
Project:	18F0316		Tested By:	cwd	
Location:	---	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	06/28/18	Test Id:	458263
Sample ID:	MP3	Visual Description:	Moist, dark brown sand with gravel		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	125.9	126.9	128.4	126.7
Moisture Content, %	5.0	6.7	9.3	11.1

Method : C

Preparation : DRY

As received Moisture : 9 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.85

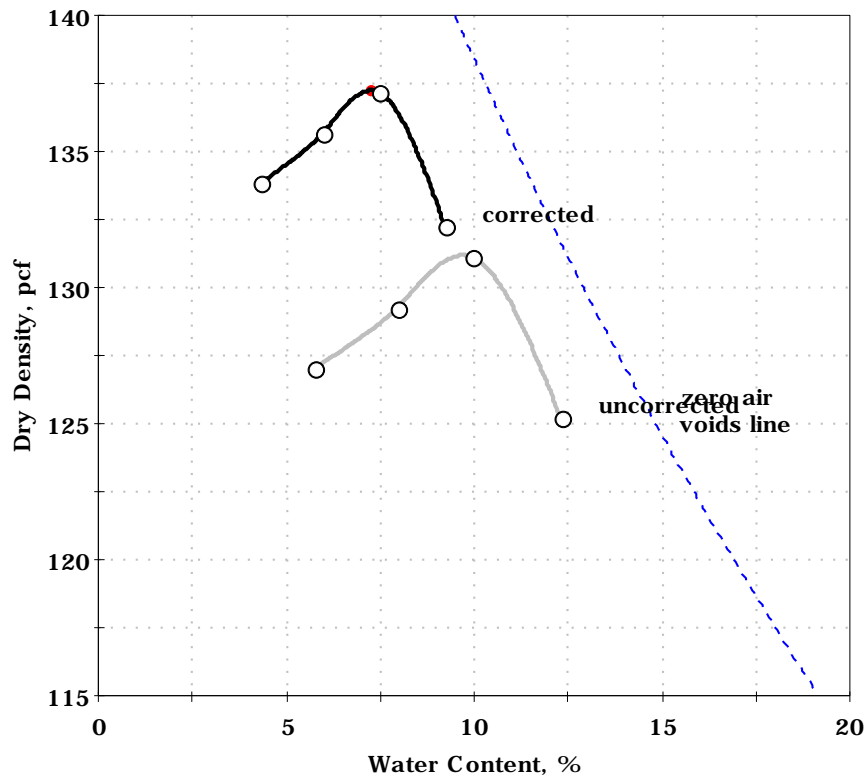
Maximum Dry Density= 128.4 pcf
Optimum Moisture= 9.0 %

Oversize Correction (27% > 3/4 inch Sieve)

Corrected Maximum Dry Density= 135.4 pcf
Corrected Optimum Moisture= 6.6 %
Assumed Average Bulk Specific Gravity = 2.55

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP6	Test Date:	06/27/18
Depth:	---	Test Id:	458272
Test Comment:	---		
Visual Description:	Moist, brownish yellow silty sand with gravel		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	127.1	129.3	131.1	125.2
Moisture Content, %	5.8	8.0	10.0	12.3

Method : C

Preparation : DRY

As received Moisture : 10 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.85

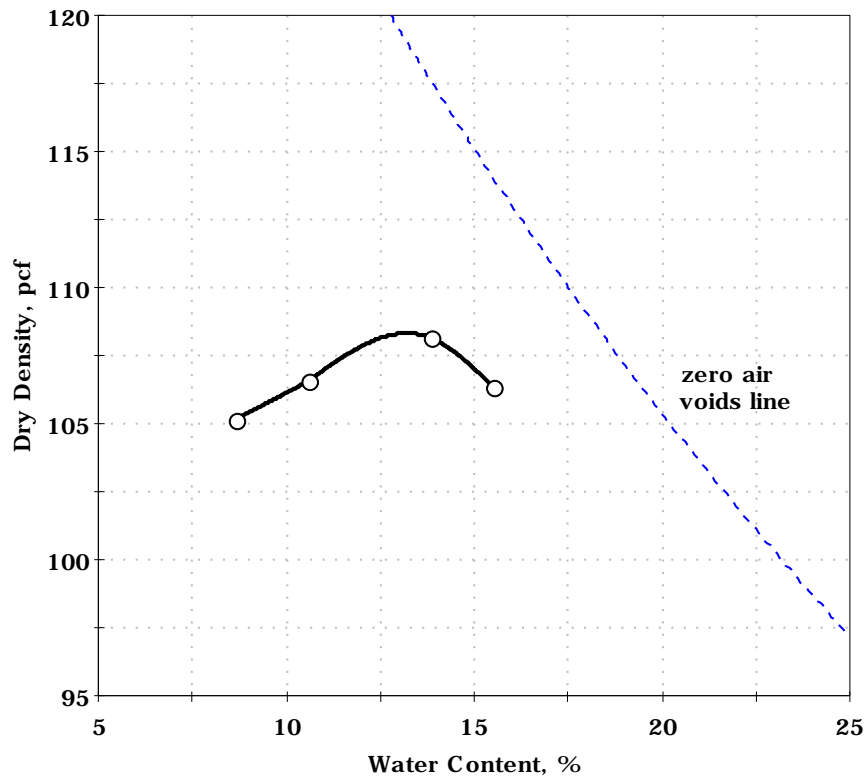
Maximum Dry Density= 131.2 pcf
Optimum Moisture= 9.7 %

Oversize Correction (25% > 3/4 inch Sieve)

Corrected Maximum Dry Density= 137.2 pcf
Corrected Optimum Moisture= 7.3 %
Assumed Average Bulk Specific Gravity = 2.55

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP10	Test Date:	06/28/18
Depth:	---	Test Id:	458264
Test Comment:	---		
Visual Description:	Moist, olive yellow silty sand		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	105.2	106.6	108.2	106.4
Moisture Content, %	8.6	10.6	13.8	15.5

Method : A

Preparation : DRY

As received Moisture : 10 %

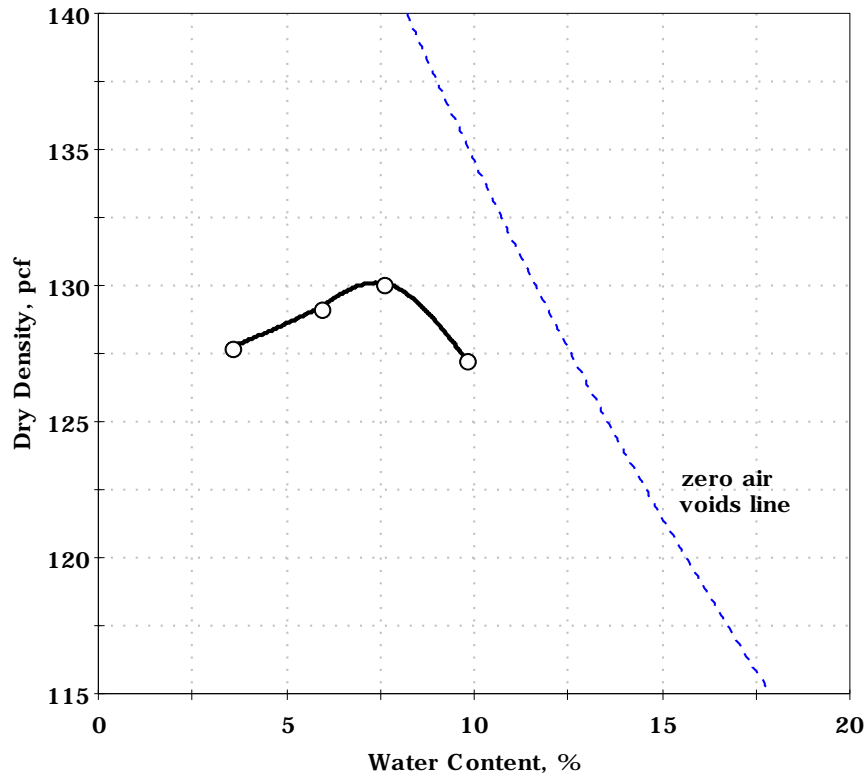
Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.55

Maximum Dry Density= 108.3 pcf
Optimum Moisture= 13.2 %

Client:	Con-Test Analytical Lab		
Project:	18F0316		
Location:	---	Project No:	GTX-308312
Boring ID:	---	Sample Type:	bucket
Sample ID:	MP24	Test Date:	06/27/18
Depth :	---	Test Id:	458271
Test Comment:	---		
Visual Description:	Moist, brown silty sand		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	127.7	129.2	130.1	127.3
Moisture Content, %	3.5	5.9	7.6	9.8

Method : C

Preparation : DRY

As received Moisture : 6 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 130.1 pcf
Optimum Moisture= 7.4 %

June 21, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18F0619

Enclosed are results of analyses for samples received by the laboratory on June 13, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, slightly slanted style.

Kerry K. McGee
Project Manager

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 6/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP11	18F0619-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP23	18F0619-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP6	18F0619-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP9	18F0619-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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REPORT DATE: 6/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP4	18F0619-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB1	18F0619-06	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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 101 Walnut Street
 Watertown, MA 02472
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REPORT DATE: 6/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP22	18F0619-07	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP20	18F0619-08	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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 101 Walnut Street
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REPORT DATE: 6/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP10	18F0619-09	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP3	18F0619-10	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 06/15/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 6010C-D

Qualifications:**M-10**

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:**Lead**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205989-DUP1, B205989-MRL1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Antimony**

18F0619-09[MP10], B205989-MS1

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18F0619-04[MP9], 18F0619-05[MP4], 18F0619-10[MP3]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:**Aroclor-1016**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1016 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1221

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1221 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1232

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1232 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1242

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1242 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1248

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1248 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1254

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1254 [2C]

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1260

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1260 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1262

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1262 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1268

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Aroclor-1268 [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Decachlorobiphenyl

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Decachlorobiphenyl [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Tetrachloro-m-xylene

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Tetrachloro-m-xylene [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

SW-846 8100 Modified**Qualifications:****S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18F0619-03[MP6], 18F0619-04[MP9], 18F0619-10[MP3]

SW-846 8151A**Qualifications:****R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205568-BLK1, B205568-BS1, B205568-BSD1, B205568-MS1

Dinoseb [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205568-BLK1, B205568-BS1, B205568-BSD1, B205568-MS1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dinoseb**

B205568-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4,5-T**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

2,4-DB

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

Dinoseb [2C]

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

SW-846 8260C**Qualifications:****L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

B205802-BSD1

2-Hexanone (MBK)

B205802-BSD1

Acetone

B205802-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18F0619-02[MP23], 18F0619-03[MP6], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205971-BLK1, B205971-BS1, B205971-BSD1

2-Butanone (MEK)

18F0619-04[MP9], B205802-BLK1, B205802-BS1, B205802-BSD1

2-Hexanone (MBK)

18F0619-04[MP9], B205802-BLK1, B205802-BS1, B205802-BSD1

Acetone

18F0619-04[MP9], B205802-BLK1, B205802-BS1, B205802-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

18F0619-01[MP11], B205836-BLK1, B205836-BS1, B205836-BSD1, S024354-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205802-BLK1, B205802-BS1, B205802-BSD1, B205836-BLK1, B205836-BS1, B205836-BSD1, B205971-BLK1, B205971-BS1, B205971-BSD1

Tetrahydrofuran

18F0619-01[MP11], B205836-BLK1, B205836-BS1, B205836-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205802-BLK1, B205802-BS1, B205802-BSD1, B205836-BLK1, B205836-BS1, B205836-BSD1, B205971-BLK1, B205971-BS1, B205971-BSD1, S024354-CCV1, S024357-CCV1, S024396-CCV1

Dichlorodifluoromethane (Freon 12)

18F0619-01[MP11], B205836-BLK1, B205836-BS1, B205836-BSD1, S024354-CCV1

SW-846 8270D**Qualifications:****V-04**

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205866-BLK1, B205866-BS1, B205866-BSD1, B205866-MS1, B205866-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205866-BLK1, B205866-BS1, B205866-BSD1, B205866-MS1, B205866-MSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205866-BLK1, B205866-BS1, B205866-BSD1, B205866-MS1, B205866-MSD1

4-Chloroaniline

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3], B205866-BLK1, B205866-BS1, B205866-BSD1, B205866-MS1, B205866-MSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18F0619-01[MP11], 18F0619-02[MP23], 18F0619-03[MP6], 18F0619-04[MP9], 18F0619-05[MP4], 18F0619-06[SB1], 18F0619-07[MP22], 18F0619-08[MP20], 18F0619-09[MP10], 18F0619-10[MP3]

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SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Benzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Bromobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Bromochloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Bromodichloromethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Bromoform	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Bromomethane	ND	0.010	mg/Kg dry	1	V-34	SW-846 8260C	6/15/18	6/15/18 17:46	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
n-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Carbon Disulfide	ND	0.0060	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Chlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Chlorodibromomethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Chloroethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Chloroform	ND	0.0040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Chloromethane	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Dibromomethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg dry	1	V-05, V-34	SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Diethyl Ether	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,4-Dioxane	ND	0.10	mg/Kg dry	1	V-16	SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Ethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Methylene Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Naphthalene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
n-Propylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Styrene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Tetrahydrofuran	ND	0.010	mg/Kg dry	1	V-16	SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Toluene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Trichloroethylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
Vinyl Chloride	ND	0.010	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
m+p Xylene	ND	0.0040	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF
o-Xylene	ND	0.0020	mg/Kg dry	1		SW-846 8260C	6/15/18	6/15/18 17:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.6	70-130	6/15/18 17:46
Toluene-d8	100	70-130	6/15/18 17:46
4-Bromofluorobenzene	98.8	70-130	6/15/18 17:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Acetophenone	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Aniline	ND	0.41	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Benzo(a)anthracene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Benzo(a)pyrene	1.3	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Benzo(b)fluoranthene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Benzo(g,h,i)perylene	0.76	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Benzo(k)fluoranthene	0.64	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Bis(2-chloroethoxy)methane	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Bis(2-chloroisopropyl)ether	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
4-Bromophenylphenylether	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Butylbenzylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
4-Chloroaniline	ND	0.80	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2-Chloronaphthalene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2-Chlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Chrysene	1.0	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Dibenzofuran	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Di-n-butylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
1,2-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
1,3-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
1,4-Dichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4-Dichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Diethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4-Dimethylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Dimethylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4-Dinitrophenol	ND	0.80	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,6-Dinitrotoluene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Di-n-octylphthalate	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Fluoranthene	1.5	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Hexachlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Hexachlorobutadiene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Hexachloroethane	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Indeno(1,2,3-cd)pyrene	0.84	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Isophorone	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
3/4-Methylphenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Nitrobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2-Nitrophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
4-Nitrophenol	ND	0.80	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Pentachlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Phenanthrene	0.37	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Phenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Pyrene	1.7	0.21	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
Pyridine	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
1,2,4-Trichlorobenzene	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4,5-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT
2,4,6-Trichlorophenol	ND	0.41	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 21:48	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	67.1	30-130	
Phenol-d6	69.4	30-130	
Nitrobenzene-d5	67.0	30-130	
2-Fluorobiphenyl	59.2	30-130	
2,4,6-Tribromophenol	63.1	30-130	
p-Terphenyl-d14	67.2	30-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.24	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Aldrin [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
alpha-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
beta-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
delta-BHC [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
gamma-BHC (Lindane) [1]	ND	0.024	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Chlordane [1]	ND	0.24	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
4,4'-DDD [1]	ND	0.049	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
4,4'-DDE [1]	ND	0.049	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
4,4'-DDT [1]	ND	0.049	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Dieldrin [1]	ND	0.049	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endosulfan I [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endosulfan II [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endosulfan sulfate [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endrin [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endrin aldehyde [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Endrin ketone [1]	ND	0.097	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Heptachlor [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Heptachlor epoxide [1]	ND	0.061	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Hexachlorobenzene [1]	ND	0.073	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Methoxychlor [1]	ND	0.61	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Toxaphene [1]	ND	1.2	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 11:44	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.6	30-150					6/20/18 11:44	
Decachlorobiphenyl [2]		70.3	30-150					6/20/18 11:44	
Tetrachloro-m-xylene [1]		75.1	30-150					6/20/18 11:44	
Tetrachloro-m-xylene [2]		73.3	30-150					6/20/18 11:44	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:19	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.9	30-150		O-32			6/19/18 11:19	
Decachlorobiphenyl [2]		88.1	30-150		O-32			6/19/18 11:19	
Tetrachloro-m-xylene [1]		98.9	30-150		O-32			6/19/18 11:19	
Tetrachloro-m-xylene [2]		100	30-150		O-32			6/19/18 11:19	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	30	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
2,4-DB [1]	ND	30	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 22:30	TG
2,4,5-TP (Silvex) [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
2,4,5-T [1]	ND	3.0	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 22:30	TG
Dalapon [1]	ND	75	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
Dicamba [1]	ND	3.0	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
Dichloroprop [1]	ND	30	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
Dinoseb [2]	ND	15	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/19/18 22:30	TG
MCPA [1]	ND	3000	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
MCPP [1]	ND	3000	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 22:30	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		107	30-150					6/19/18 22:30	
2,4-Dichlorophenylacetic acid [2]		141	30-150					6/19/18 22:30	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	130	100	mg/Kg dry	10		SW-846 8100 Modified	6/15/18	6/18/18 22:50	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		66.2	40-140					6/18/18 22:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 14:00

Field Sample #: MP11

Sample ID: 18F0619-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Arsenic	8.2	2.1	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Barium	32	2.1	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Beryllium	0.36	0.21	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Chromium	18	0.42	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Lead	6.3	0.63	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:33	EJB
Nickel	13	0.42	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Selenium	ND	4.2	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Silver	ND	0.42	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Vanadium	16	0.84	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW
Zinc	22	0.84	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:02	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP11

Sampled: 6/7/2018 14:00

Sample ID: 18F0619-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.4°C	6.5		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/19/18	6/20/18 14:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/19/18	6/20/18 14:15	DJM
Specific conductance	21	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	82.3		% Wt	1		SM 2540G	6/14/18	6/15/18 7:13	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Bromoform	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Bromomethane	ND	0.0095	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 9:03	MFF
2-Butanone (MEK)	ND	0.038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Carbon Disulfide	ND	0.0057	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Carbon Tetrachloride	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Chlorodibromomethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Chloroethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Chloroform	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Chloromethane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1-Dichloroethylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,3-Dichloropropane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
2,2-Dichloropropane	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
cis-1,3-Dichloropropene	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
trans-1,3-Dichloropropene	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Diethyl Ether	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Diisopropyl Ether (DIPE)	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,4-Dioxane	ND	0.095	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Methylene Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Naphthalene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
n-Propylbenzene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Styrene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Tetrahydrofuran	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
1,3,5-Trimethylbenzene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
Vinyl Chloride	ND	0.0095	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
m+p Xylene	ND	0.0038	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.4	70-130	6/18/18 9:03
Toluene-d8	98.3	70-130	6/18/18 9:03
4-Bromofluorobenzene	96.1	70-130	6/18/18 9:03

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Aniline	ND	0.39	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
4-Chloroaniline	ND	0.76	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4-Dinitrophenol	ND	0.76	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
4-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:11	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		51.5	30-130					6/18/18 22:11	
Phenol-d6		53.4	30-130					6/18/18 22:11	
Nitrobenzene-d5		49.0	30-130					6/18/18 22:11	
2-Fluorobiphenyl		44.8	30-130					6/18/18 22:11	
2,4,6-Tribromophenol		52.5	30-130					6/18/18 22:11	
p-Terphenyl-d14		52.6	30-130					6/18/18 22:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 10:45

Field Sample #: MP23

Sample ID: 18F0619-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endosulfan II [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endosulfan sulfate [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endrin [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endrin aldehyde [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Endrin ketone [1]	ND	0.0093	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Hexachlorobenzene [1]	ND	0.0070	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:11	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.6	30-150					6/20/18 12:11	
Decachlorobiphenyl [2]		73.7	30-150					6/20/18 12:11	
Tetrachloro-m-xylene [1]		71.7	30-150					6/20/18 12:11	
Tetrachloro-m-xylene [2]		75.3	30-150					6/20/18 12:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:36	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.6	30-150		O-32			6/19/18 11:36	
Decachlorobiphenyl [2]		84.3	30-150		O-32			6/19/18 11:36	
Tetrachloro-m-xylene [1]		96.2	30-150		O-32			6/19/18 11:36	
Tetrachloro-m-xylene [2]		99.4	30-150		O-32			6/19/18 11:36	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 10:45

Field Sample #: MP23

Sample ID: 18F0619-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
2,4-DB [1]	ND	29	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 23:09	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 23:09	TG
Dalapon [1]	ND	71	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
Dinoseb [2]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/19/18 23:09	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:09	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	90.6	30-150						6/19/18 23:09	
2,4-Dichlorophenylacetic acid [2]	111	30-150						6/19/18 23:09	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	18	9.6	mg/Kg dry	1		SW-846 8100 Modified	6/15/18	6/19/18 0:11	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		71.4	40-140					6/19/18 0:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 10:45

Field Sample #: MP23

Sample ID: 18F0619-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Arsenic	6.1	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Barium	20	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Beryllium	0.23	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Chromium	11	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Lead	4.6	0.59	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:39	EJB
Nickel	12	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Vanadium	9.1	0.78	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW
Zinc	16	0.78	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:07	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP23

Sampled: 6/7/2018 10:45

Sample ID: 18F0619-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.6°C	5.7		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	3.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	86.2		% Wt	1		SM 2540G	6/14/18	6/15/18 7:13	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Bromoform	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Bromomethane	ND	0.0078	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 9:29	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Carbon Tetrachloride	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Chlorodibromomethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Chloroethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Chloromethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,3-Dichloropropane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
2,2-Dichloropropane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
cis-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
trans-1,3-Dichloropropene	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Diethyl Ether	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Diisopropyl Ether (DIPE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,4-Dioxane	ND	0.078	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Methylene Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
n-Propylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Styrene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Tetrahydrofuran	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
Vinyl Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.9	70-130	6/18/18 9:29
Toluene-d8	98.2	70-130	6/18/18 9:29
4-Bromofluorobenzene	98.0	70-130	6/18/18 9:29

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
4-Chloroaniline	ND	0.73	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:33	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		53.3	30-130					6/18/18 22:33	
Phenol-d6		58.0	30-130					6/18/18 22:33	
Nitrobenzene-d5		53.2	30-130					6/18/18 22:33	
2-Fluorobiphenyl		52.5	30-130					6/18/18 22:33	
2,4,6-Tribromophenol		54.1	30-130					6/18/18 22:33	
p-Terphenyl-d14		59.4	30-130					6/18/18 22:33	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endosulfan II [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endosulfan sulfate [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endrin [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endrin aldehyde [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Endrin ketone [1]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Hexachlorobenzene [1]	ND	0.0067	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 12:39	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.8	30-150					6/20/18 12:39	
Decachlorobiphenyl [2]		50.5	30-150					6/20/18 12:39	
Tetrachloro-m-xylene [1]		61.6	30-150					6/20/18 12:39	
Tetrachloro-m-xylene [2]		63.2	30-150					6/20/18 12:39	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 11:54	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.6	30-150		O-32			6/19/18 11:54	
Decachlorobiphenyl [2]		72.4	30-150		O-32			6/19/18 11:54	
Tetrachloro-m-xylene [1]		84.0	30-150		O-32			6/19/18 11:54	
Tetrachloro-m-xylene [2]		85.9	30-150		O-32			6/19/18 11:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 11:20

Field Sample #: MP6

Sample ID: 18F0619-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
2,4-DB [1]	ND	28	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 23:48	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/19/18 23:48	TG
Dalapon [1]	ND	69	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
Dinoseb [2]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/19/18 23:48	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/19/18 23:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		100	30-150					6/19/18 23:48	
2,4-Dichlorophenylacetic acid [2]		135	30-150					6/19/18 23:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP6

Sampled: 6/7/2018 11:20

Sample ID: 18F0619-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	230	180	mg/Kg dry	20		SW-846 8100 Modified	6/15/18	6/19/18 3:13	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			6/19/18 3:13	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 11:20

Field Sample #: MP6

Sample ID: 18F0619-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Arsenic	17	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Barium	120	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Beryllium	0.34	0.19	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Cadmium	0.28	0.19	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Chromium	40	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Lead	12	0.56	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:40	EJB
Nickel	5.0	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Silver	1.3	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Vanadium	57	0.75	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW
Zinc	29	0.75	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:11	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 11:20

Field Sample #: MP6

Sample ID: 18F0619-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.6°C	5.4		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	32	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	89.5		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.045	mg/Kg dry	1	R-05	SW-846 8260C	6/14/18	6/15/18 15:48	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Benzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Bromobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Bromochloromethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Bromodichloromethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Bromoform	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Bromomethane	ND	0.0045	mg/Kg dry	1	V-34	SW-846 8260C	6/14/18	6/15/18 15:48	MFF
2-Butanone (MEK)	ND	0.018	mg/Kg dry	1	R-05	SW-846 8260C	6/14/18	6/15/18 15:48	MFF
n-Butylbenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
sec-Butylbenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
tert-Butylbenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Carbon Disulfide	ND	0.0027	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Carbon Tetrachloride	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Chlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Chlorodibromomethane	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Chloroethane	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Chloroform	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Chloromethane	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
2-Chlorotoluene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
4-Chlorotoluene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2-Dibromoethane (EDB)	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Dibromomethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2-Dichlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,3-Dichlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,4-Dichlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1-Dichloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2-Dichloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1-Dichloroethylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
cis-1,2-Dichloroethylene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
trans-1,2-Dichloroethylene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2-Dichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,3-Dichloropropane	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
2,2-Dichloropropane	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1-Dichloropropene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
cis-1,3-Dichloropropene	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Diethyl Ether	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Diisopropyl Ether (DIPE)	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,4-Dioxane	ND	0.045	mg/Kg dry	1	V-16	SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Ethylbenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
2-Hexanone (MBK)	ND	0.0089	mg/Kg dry	1	R-05	SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Isopropylbenzene (Cumene)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Methylene Chloride	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Naphthalene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
n-Propylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Styrene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1,1,2-Tetrachloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.00045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Tetrachloroethylene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Tetrahydrofuran	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Toluene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2,3-Trichlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2,4-Trichlorobenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1,1-Trichloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,1,2-Trichloroethane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Trichloroethylene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2,3-Trichloropropane	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,2,4-Trimethylbenzene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
1,3,5-Trimethylbenzene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
Vinyl Chloride	ND	0.0045	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
m+p Xylene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF
o-Xylene	ND	0.00089	mg/Kg dry	1		SW-846 8260C	6/14/18	6/15/18 15:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.8	70-130	6/15/18 15:48
Toluene-d8	98.7	70-130	6/15/18 15:48
4-Bromofluorobenzene	95.0	70-130	6/15/18 15:48

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Acenaphthylene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Benzo(a)anthracene	0.94	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Benzo(a)pyrene	1.4	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Benzo(b)fluoranthene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Benzo(g,h,i)perylene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Benzo(k)fluoranthene	0.65	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
4-Chloroaniline	ND	0.74	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Chrysene	0.96	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Dibenz(a,h)anthracene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4-Dinitrophenol	ND	0.74	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Fluoranthene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Indeno(1,2,3-cd)pyrene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
4-Nitrophenol	ND	0.74	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Phenanthrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Pyrene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 22:56	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		59.9	30-130					6/18/18 22:56	
Phenol-d6		62.6	30-130					6/18/18 22:56	
Nitrobenzene-d5		56.6	30-130					6/18/18 22:56	
2-Fluorobiphenyl		54.6	30-130					6/18/18 22:56	
2,4,6-Tribromophenol		62.9	30-130					6/18/18 22:56	
p-Terphenyl-d14		62.2	30-130					6/18/18 22:56	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Aldrin [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
alpha-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
beta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
delta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
4,4'-DDD [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
4,4'-DDE [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
4,4'-DDT [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Dieldrin [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endosulfan I [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endosulfan II [1]	ND	0.091	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endosulfan sulfate [1]	ND	0.091	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endrin [1]	ND	0.091	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endrin aldehyde [1]	ND	0.091	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Endrin ketone [1]	ND	0.091	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Heptachlor [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Heptachlor epoxide [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Hexachlorobenzene [1]	ND	0.068	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Methoxychlor [1]	ND	0.57	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Toxaphene [1]	ND	1.1	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:06	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.8	30-150					6/20/18 13:06	
Decachlorobiphenyl [2]		66.9	30-150					6/20/18 13:06	
Tetrachloro-m-xylene [1]		76.5	30-150					6/20/18 13:06	
Tetrachloro-m-xylene [2]		75.8	30-150					6/20/18 13:06	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:12	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.7	30-150		O-32			6/19/18 12:12	
Decachlorobiphenyl [2]		78.0	30-150		O-32			6/19/18 12:12	
Tetrachloro-m-xylene [1]		89.3	30-150		O-32			6/19/18 12:12	
Tetrachloro-m-xylene [2]		91.6	30-150		O-32			6/19/18 12:12	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
2,4-DB [1]	ND	28	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 0:28	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 0:28	TG
Dalapon [1]	ND	70	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
Dinoseb [2]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 0:28	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 0:28	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		90.3	30-150					6/20/18 0:28	
2,4-Dichlorophenylacetic acid [2]		111	30-150					6/20/18 0:28	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP9

Sampled: 6/6/2018 14:20

Sample ID: 18F0619-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	250	190	mg/Kg dry	20		SW-846 8100 Modified	6/15/18	6/19/18 3:34	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			6/19/18 3:34	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/6/2018 14:20

Field Sample #: MP9

Sample ID: 18F0619-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Arsenic	13	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Barium	40	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Beryllium	0.30	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Cadmium	0.23	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Chromium	18	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Lead	13	0.59	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:42	EJB
Nickel	11	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Silver	0.56	0.39	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Vanadium	20	0.79	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW
Zinc	24	0.79	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:26	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/6/2018 14:20

Field Sample #: MP9

Sample ID: 18F0619-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.7°C	6.0		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	13	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	87.8		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Bromoform	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Bromomethane	ND	0.0086	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 9:56	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Carbon Disulfide	ND	0.0052	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Carbon Tetrachloride	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Chlorodibromomethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Chloroethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Chloromethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,3-Dichloropropane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
2,2-Dichloropropane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
cis-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
trans-1,3-Dichloropropene	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Diethyl Ether	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,4-Dioxane	ND	0.086	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Methylene Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
n-Propylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Styrene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Tetrahydrofuran	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
Vinyl Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
m+p Xylene	0.0039	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 9:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	94.3	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	93.7	70-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Benzo(a)anthracene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Benzo(a)pyrene	0.41	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Benzo(b)fluoranthene	0.51	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Benzo(g,h,i)perylene	0.32	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Benzo(k)fluoranthene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Chrysene	0.31	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Fluoranthene	0.58	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Indeno(1,2,3-cd)pyrene	0.31	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Phenanthrene	0.25	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Pyrene	0.57	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:18	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		59.6	30-130					6/18/18 23:18	
Phenol-d6		61.7	30-130					6/18/18 23:18	
Nitrobenzene-d5		56.3	30-130					6/18/18 23:18	
2-Fluorobiphenyl		52.2	30-130					6/18/18 23:18	
2,4,6-Tribromophenol		62.1	30-130					6/18/18 23:18	
p-Terphenyl-d14		60.0	30-130					6/18/18 23:18	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Aldrin [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
alpha-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
beta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
delta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
gamma-BHC (Lindane) [1]	ND	0.021	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Chlordane [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
4,4'-DDD [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
4,4'-DDE [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
4,4'-DDT [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Dieldrin [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endosulfan I [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endosulfan II [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endosulfan sulfate [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endrin [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endrin aldehyde [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Endrin ketone [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Heptachlor [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Heptachlor epoxide [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Hexachlorobenzene [1]	ND	0.063	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Methoxychlor [1]	ND	0.53	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Toxaphene [1]	ND	1.1	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 13:33	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.5	30-150					6/20/18 13:33	
Decachlorobiphenyl [2]		70.6	30-150					6/20/18 13:33	
Tetrachloro-m-xylene [1]		70.4	30-150					6/20/18 13:33	
Tetrachloro-m-xylene [2]		70.5	30-150					6/20/18 13:33	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP4

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:30	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.5	30-150		O-32			6/19/18 12:30	
Decachlorobiphenyl [2]		84.9	30-150		O-32			6/19/18 12:30	
Tetrachloro-m-xylene [1]		78.5	30-150		O-32			6/19/18 12:30	
Tetrachloro-m-xylene [2]		80.2	30-150		O-32			6/19/18 12:30	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP4

Sample ID: 18F0619-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
2,4-DB [1]	ND	26	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 1:07	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 1:07	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
Dinoseb [2]	ND	13	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 1:07	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:07	TG
Surrogates		% Recovery							
2,4-Dichlorophenylacetic acid [1]		84.9						6/20/18 1:07	
2,4-Dichlorophenylacetic acid [2]		112						6/20/18 1:07	
			Recovery Limits						
			30-150						
			30-150						

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP4

Sample ID: 18F0619-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	100	44	mg/Kg dry	5		SW-846 8100 Modified	6/15/18	6/20/18 9:43	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	67.6		40-140					6/20/18 9:43	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP4

Sample ID: 18F0619-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Arsenic	3.9	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Barium	31	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Chromium	17	0.33	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Lead	8.4	0.50	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:44	EJB
Nickel	12	0.33	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Silver	0.43	0.33	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Vanadium	17	0.66	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW
Zinc	25	0.66	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:30	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP4

Sample ID: 18F0619-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @24.5°C	7.8		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	12	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	95.2		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Bromoform	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Bromomethane	ND	0.0082	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 10:23	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Carbon Tetrachloride	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Chlorodibromomethane	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Chloroethane	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Chloromethane	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2-Dibromoethane (EDB)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,3-Dichloropropane	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
2,2-Dichloropropane	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
cis-1,3-Dichloropropene	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
trans-1,3-Dichloropropene	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Diethyl Ether	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Diisopropyl Ether (DIPE)	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,4-Dioxane	ND	0.082	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Methylene Chloride	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
n-Propylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Styrene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.00082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Tetrahydrofuran	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
1,3,5-Trimethylbenzene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
Vinyl Chloride	ND	0.0082	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.1	70-130	6/18/18 10:23
Toluene-d8	99.2	70-130	6/18/18 10:23
4-Bromofluorobenzene	95.8	70-130	6/18/18 10:23

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Benzo(a)pyrene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Benzo(b)fluoranthene	0.25	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Benzo(g,h,i)perylene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Indeno(1,2,3-cd)pyrene	0.23	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/18/18 23:40	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		61.3	30-130					6/18/18 23:40	
Phenol-d6		63.1	30-130					6/18/18 23:40	
Nitrobenzene-d5		58.4	30-130					6/18/18 23:40	
2-Fluorobiphenyl		57.1	30-130					6/18/18 23:40	
2,4,6-Tribromophenol		63.3	30-130					6/18/18 23:40	
p-Terphenyl-d14		66.0	30-130					6/18/18 23:40	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
4,4'-DDD [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
4,4'-DDT [1]	0.0080	0.0042	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endosulfan II [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endosulfan sulfate [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endrin [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endrin aldehyde [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Endrin ketone [1]	ND	0.0085	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Hexachlorobenzene [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:00	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		65.0	30-150					6/20/18 14:00	
Decachlorobiphenyl [2]		61.6	30-150					6/20/18 14:00	
Tetrachloro-m-xylene [1]		65.3	30-150					6/20/18 14:00	
Tetrachloro-m-xylene [2]		67.4	30-150					6/20/18 14:00	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 12:47	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.8	30-150		O-32			6/19/18 12:47	
Decachlorobiphenyl [2]		86.2	30-150		O-32			6/19/18 12:47	
Tetrachloro-m-xylene [1]		98.9	30-150		O-32			6/19/18 12:47	
Tetrachloro-m-xylene [2]		106	30-150		O-32			6/19/18 12:47	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 07:45

Field Sample #: SB1

Sample ID: 18F0619-06

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
2,4-DB [1]	ND	26	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 1:46	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 1:46	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
Dinoseb [2]	ND	13	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 1:46	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 1:46	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		94.7	30-150					6/20/18 1:46	
2,4-Dichlorophenylacetic acid [2]		115	30-150					6/20/18 1:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: SB1

Sampled: 6/7/2018 07:45

Sample ID: 18F0619-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	24	8.8	mg/Kg dry	1		SW-846 8100 Modified	6/15/18	6/19/18 22:02	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		62.7	40-140					6/19/18 22:02	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 07:45

Field Sample #: SB1

Sample ID: 18F0619-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Arsenic	8.3	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Barium	22	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Beryllium	0.22	0.17	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Chromium	14	0.34	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Lead	5.1	0.52	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:45	EJB
Nickel	11	0.34	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Vanadium	12	0.69	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW
Zinc	19	0.69	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:35	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 07:45

Field Sample #: SB1

Sample ID: 18F0619-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.7°C	5.4		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	12	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	94.4		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Bromoform	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 10:50	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Carbon Tetrachloride	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Chloroethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
2,2-Dichloropropane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
trans-1,3-Dichloropropene	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Diethyl Ether	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Diisopropyl Ether (DIPE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,4-Dioxane	ND	0.072	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Methylene Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
n-Propylbenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Styrene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
1,3,5-Trimethylbenzene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 10:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.5	70-130	6/18/18 10:50
Toluene-d8	99.9	70-130	6/18/18 10:50
4-Bromofluorobenzene	94.0	70-130	6/18/18 10:50

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:03	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		59.3	30-130					6/19/18 0:03	
Phenol-d6		60.1	30-130					6/19/18 0:03	
Nitrobenzene-d5		55.8	30-130					6/19/18 0:03	
2-Fluorobiphenyl		53.0	30-130					6/19/18 0:03	
2,4,6-Tribromophenol		63.0	30-130					6/19/18 0:03	
p-Terphenyl-d14		62.6	30-130					6/19/18 0:03	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:27	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.9	30-150					6/20/18 14:27	
Decachlorobiphenyl [2]		84.3	30-150					6/20/18 14:27	
Tetrachloro-m-xylene [1]		81.4	30-150					6/20/18 14:27	
Tetrachloro-m-xylene [2]		77.2	30-150					6/20/18 14:27	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 13:53	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.6	30-150		O-32			6/19/18 13:53	
Decachlorobiphenyl [2]		83.0	30-150		O-32			6/19/18 13:53	
Tetrachloro-m-xylene [1]		92.9	30-150		O-32			6/19/18 13:53	
Tetrachloro-m-xylene [2]		98.8	30-150		O-32			6/19/18 13:53	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
2,4-DB [1]	ND	27	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 5:00	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 5:00	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
Dinoseb [2]	ND	13	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 5:00	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:00	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		88.2	30-150					6/20/18 5:00	
2,4-Dichlorophenylacetic acid [2]		106	30-150					6/20/18 5:00	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	14	8.9	mg/Kg dry	1		SW-846 8100 Modified	6/15/18	6/19/18 0:31	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		73.7	40-140					6/19/18 0:31	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Arsenic	6.3	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Barium	14	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Beryllium	0.20	0.18	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Chromium	11	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Lead	3.9	0.55	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:47	EJB
Nickel	8.7	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Vanadium	8.3	0.73	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW
Zinc	16	0.73	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:39	QNW

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Project Location: Hudson, MA

Sample Description:

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Date Received: 6/13/2018

Field Sample #: MP22

Sampled: 6/7/2018 13:00

Sample ID: 18F0619-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.4°C	5.8		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	3.0	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	92.7		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Bromoform	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Bromomethane	ND	0.0084	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 11:17	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Carbon Disulfide	ND	0.0050	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Carbon Tetrachloride	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Chlorodibromomethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Chloroethane	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Chloromethane	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,3-Dichloropropane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
2,2-Dichloropropane	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
cis-1,3-Dichloropropene	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
trans-1,3-Dichloropropene	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Diethyl Ether	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,4-Dioxane	ND	0.084	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Isopropylbenzene (Cumene)	0.011	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Methylene Chloride	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
n-Propylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Styrene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Tetrahydrofuran	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
Vinyl Chloride	ND	0.0084	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.3	70-130	6/18/18 11:17
Toluene-d8	99.9	70-130	6/18/18 11:17
4-Bromofluorobenzene	100	70-130	6/18/18 11:17

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Acetophenone	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Aniline	ND	0.39	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Bis(2-chloroethoxy)methane	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Bis(2-chloroethyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Bis(2-chloroisopropyl)ether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
4-Bromophenylphenylether	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Butylbenzylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
4-Chloroaniline	ND	0.75	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2-Chloronaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2-Chlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Dibenzofuran	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Di-n-butylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
1,2-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
1,3-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
1,4-Dichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4-Dichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Diethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4-Dimethylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Dimethylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,6-Dinitrotoluene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Di-n-octylphthalate	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Hexachlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Hexachlorobutadiene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Hexachloroethane	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Isophorone	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
3/4-Methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Nitrobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2-Nitrophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Pentachlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Phenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Pyridine	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
1,2,4-Trichlorobenzene	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4,5-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
2,4,6-Trichlorophenol	ND	0.39	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:25	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.0	30-130					6/19/18 0:25	
Phenol-d6		59.2	30-130					6/19/18 0:25	
Nitrobenzene-d5		54.8	30-130					6/19/18 0:25	
2-Fluorobiphenyl		51.9	30-130					6/19/18 0:25	
2,4,6-Tribromophenol		62.2	30-130					6/19/18 0:25	
p-Terphenyl-d14		61.6	30-130					6/19/18 0:25	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Aldrin [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
alpha-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
beta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
delta-BHC [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
4,4'-DDD [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
4,4'-DDE [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
4,4'-DDT [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Dieldrin [1]	ND	0.0046	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endosulfan I [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endosulfan II [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endosulfan sulfate [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endrin [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endrin aldehyde [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Endrin ketone [1]	ND	0.0092	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Heptachlor [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Heptachlor epoxide [1]	ND	0.0058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Hexachlorobenzene [1]	ND	0.0069	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Methoxychlor [1]	ND	0.058	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Toxaphene [1]	ND	0.12	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 14:55	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.4	30-150					6/20/18 14:55	
Decachlorobiphenyl [2]		69.1	30-150					6/20/18 14:55	
Tetrachloro-m-xylene [1]		66.1	30-150					6/20/18 14:55	
Tetrachloro-m-xylene [2]		67.6	30-150					6/20/18 14:55	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:11	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.7	30-150		O-32			6/19/18 14:11	
Decachlorobiphenyl [2]		79.5	30-150		O-32			6/19/18 14:11	
Tetrachloro-m-xylene [1]		88.4	30-150		O-32			6/19/18 14:11	
Tetrachloro-m-xylene [2]		93.2	30-150		O-32			6/19/18 14:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	29	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
2,4-DB [1]	ND	29	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 5:39	TG
2,4,5-TP (Silvex) [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
2,4,5-T [1]	ND	2.9	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 5:39	TG
Dalapon [1]	ND	72	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
Dicamba [1]	ND	2.9	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
Dichloroprop [1]	ND	29	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
Dinoseb [2]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 5:39	TG
MCPA [1]	ND	2900	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
MCPP [1]	ND	2900	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 5:39	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		87.0	30-150					6/20/18 5:39	
2,4-Dichlorophenylacetic acid [2]		113	30-150					6/20/18 5:39	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	16	9.5	mg/Kg dry	1		SW-846 8100 Modified	6/15/18	6/19/18 0:52	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		73.9	40-140					6/19/18 0:52	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Arsenic	7.4	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Barium	18	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Beryllium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Chromium	9.3	0.40	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Lead	3.9	0.60	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Mercury	ND	0.030	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:48	EJB
Nickel	6.2	0.40	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Selenium	ND	4.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Silver	ND	0.40	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Thallium	ND	2.0	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Vanadium	8.9	0.80	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW
Zinc	14	0.80	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:44	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP20

Sampled: 6/7/2018 15:00

Sample ID: 18F0619-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @23.3°C	6.1		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	5.2	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	86.8		% Wt	1		SM 2540G	6/14/18	6/15/18 7:14	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Bromoform	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Bromomethane	ND	0.0077	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 11:44	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Carbon Tetrachloride	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Chlorodibromomethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Chloroethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Chloromethane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,3-Dichloropropane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
2,2-Dichloropropane	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
cis-1,3-Dichloropropene	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
trans-1,3-Dichloropropene	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Diethyl Ether	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Diisopropyl Ether (DIPE)	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,4-Dioxane	ND	0.077	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Methylene Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
n-Propylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Styrene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.00077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Tetrahydrofuran	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
Vinyl Chloride	ND	0.0077	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 11:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.6	70-130	6/18/18 11:44
Toluene-d8	101	70-130	6/18/18 11:44
4-Bromofluorobenzene	98.5	70-130	6/18/18 11:44

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
4-Chloroaniline	ND	0.75	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 0:47	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		55.9	30-130					6/19/18 0:47	
Phenol-d6		58.4	30-130					6/19/18 0:47	
Nitrobenzene-d5		52.0	30-130					6/19/18 0:47	
2-Fluorobiphenyl		51.3	30-130					6/19/18 0:47	
2,4,6-Tribromophenol		66.1	30-130					6/19/18 0:47	
p-Terphenyl-d14		65.1	30-130					6/19/18 0:47	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endosulfan sulfate [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Endrin ketone [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	6/14/18	6/20/18 15:22	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.7	30-150					6/20/18 15:22	
Decachlorobiphenyl [2]		70.8	30-150					6/20/18 15:22	
Tetrachloro-m-xylene [1]		70.9	30-150					6/20/18 15:22	
Tetrachloro-m-xylene [2]		72.7	30-150					6/20/18 15:22	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:29	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.7	30-150		O-32			6/19/18 14:29	
Decachlorobiphenyl [2]		85.4	30-150		O-32			6/19/18 14:29	
Tetrachloro-m-xylene [1]		96.5	30-150		O-32			6/19/18 14:29	
Tetrachloro-m-xylene [2]		102	30-150		O-32			6/19/18 14:29	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
2,4-DB [1]	ND	28	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 6:17	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 6:17	TG
Dalalpon [1]	ND	71	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
Dinoseb [2]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 6:17	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		87.7	30-150					6/20/18 6:17	
2,4-Dichlorophenylacetic acid [2]		112	30-150					6/20/18 6:17	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	16	9.4	mg/Kg dry	1		SW-846 8100 Modified	6/15/18	6/19/18 1:12	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		64.9	40-140					6/19/18 1:12	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP10

Sampled: 6/8/2018 14:00

Sample ID: 18F0619-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1	MS-07	SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Arsenic	7.1	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Barium	23	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Cadmium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Chromium	8.8	0.38	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Lead	3.5	0.57	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:28	EJB
Nickel	5.8	0.38	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Selenium	ND	3.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Silver	ND	0.38	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Vanadium	9.3	0.77	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW
Zinc	11	0.77	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 12:49	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/8/2018 14:00

Field Sample #: MP10

Sample ID: 18F0619-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @22.8°C	6.1		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	16	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	88.3		% Wt	1		SM 2540G	6/14/18	6/15/18 7:15	MRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Benzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Bromobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Bromochloromethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Bromodichloromethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Bromoform	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Bromomethane	ND	0.0047	mg/Kg dry	1	V-34	SW-846 8260C	6/18/18	6/18/18 12:11	MFF
2-Butanone (MEK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
n-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
sec-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
tert-Butylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Carbon Disulfide	ND	0.0028	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Chlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Chlorodibromomethane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Chloroethane	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Chloroform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Chloromethane	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
2-Chlorotoluene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
4-Chlorotoluene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2-Dibromoethane (EDB)	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Dibromomethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,3-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,4-Dichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1-Dichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2-Dichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
cis-1,2-Dichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
trans-1,2-Dichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2-Dichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,3-Dichloropropane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
2,2-Dichloropropane	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1-Dichloropropene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
cis-1,3-Dichloropropene	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
trans-1,3-Dichloropropene	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Diethyl Ether	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Diisopropyl Ether (DIPE)	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,4-Dioxane	ND	0.047	mg/Kg dry	1	R-05, V-16	SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Ethylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
2-Hexanone (MBK)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Isopropylbenzene (Cumene)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Methylene Chloride	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Naphthalene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1,1,2-Tetrachloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1,2,2-Tetrachloroethane	ND	0.00047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Tetrachloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Tetrahydrofuran	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Toluene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2,3-Trichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2,4-Trichlorobenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1,1-Trichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,1,2-Trichloroethane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Trichloroethylene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2,3-Trichloropropane	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,2,4-Trimethylbenzene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
Vinyl Chloride	ND	0.0047	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
m+p Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF
o-Xylene	ND	0.00094	mg/Kg dry	1		SW-846 8260C	6/18/18	6/18/18 12:11	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.7	70-130	6/18/18 12:11
Toluene-d8	101	70-130	6/18/18 12:11
4-Bromofluorobenzene	94.8	70-130	6/18/18 12:11

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Aniline	ND	0.35	mg/Kg dry	1	V-04	SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Benzo(a)pyrene	0.28	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Benzo(b)fluoranthene	0.25	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Benzo(g,h,i)perylene	0.25	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
4-Chloroaniline	ND	0.67	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1	V-34	SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4-Dinitrophenol	ND	0.67	mg/Kg dry	1	V-05	SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Fluoranthene	0.25	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Indeno(1,2,3-cd)pyrene	0.21	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP3

Sample ID: 18F0619-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
4-Nitrophenol	ND	0.67	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Pyrene	0.37	0.17	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	6/15/18	6/19/18 1:09	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		47.8	30-130					6/19/18 1:09	
Phenol-d6		49.5	30-130					6/19/18 1:09	
Nitrobenzene-d5		45.9	30-130					6/19/18 1:09	
2-Fluorobiphenyl		42.5	30-130					6/19/18 1:09	
2,4,6-Tribromophenol		47.9	30-130					6/19/18 1:09	
p-Terphenyl-d14		53.6	30-130					6/19/18 1:09	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Aldrin [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
alpha-BHC [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
beta-BHC [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
delta-BHC [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
gamma-BHC (Lindane) [1]	ND	0.021	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Chlordane [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
4,4'-DDD [1]	ND	0.041	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
4,4'-DDE [1]	ND	0.041	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
4,4'-DDT [1]	ND	0.041	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Dieldrin [1]	ND	0.041	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endosulfan I [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endosulfan II [1]	ND	0.083	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endosulfan sulfate [1]	ND	0.083	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endrin [1]	ND	0.083	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endrin aldehyde [1]	ND	0.083	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Endrin ketone [1]	ND	0.083	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Heptachlor [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Heptachlor epoxide [1]	ND	0.052	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Hexachlorobenzene [1]	ND	0.062	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Methoxychlor [1]	ND	0.52	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Toxaphene [1]	ND	1.0	mg/Kg dry	10		SW-846 8081B	6/14/18	6/20/18 15:49	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.2	30-150					6/20/18 15:49	
Decachlorobiphenyl [2]		73.9	30-150					6/20/18 15:49	
Tetrachloro-m-xylene [1]		82.5	30-150					6/20/18 15:49	
Tetrachloro-m-xylene [2]		83.8	30-150					6/20/18 15:49	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4	O-32	SW-846 8082A	6/14/18	6/19/18 14:46	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.9	30-150		O-32			6/19/18 14:46	
Decachlorobiphenyl [2]		92.1	30-150		O-32			6/19/18 14:46	
Tetrachloro-m-xylene [1]		107	30-150		O-32			6/19/18 14:46	
Tetrachloro-m-xylene [2]		110	30-150		O-32			6/19/18 14:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP3

Sample ID: 18F0619-10

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
2,4-DB [1]	ND	26	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 6:56	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1	V-20	SW-846 8151A	6/13/18	6/20/18 6:56	TG
Dalapon [1]	ND	64	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
Dinoseb [2]	ND	13	µg/kg dry	1	R-05, V-20	SW-846 8151A	6/13/18	6/20/18 6:56	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	6/13/18	6/20/18 6:56	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	95.4	30-150						6/20/18 6:56	
2,4-Dichlorophenylacetic acid [2]	123	30-150						6/20/18 6:56	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	320	170	mg/Kg dry	20		SW-846 8100 Modified	6/15/18	6/19/18 2:53	RMW
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	*		40-140	S-01		6/19/18 2:53			

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Sampled: 6/7/2018 08:30

Field Sample #: MP3

Sample ID: 18F0619-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Arsenic	14	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Barium	21	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Beryllium	0.27	0.18	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Cadmium	0.29	0.18	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Lead	8.6	0.53	mg/Kg dry	1	M-10	SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	6/19/18	6/19/18 14:50	EJB
Nickel	11	0.35	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Silver	0.35	0.35	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Vanadium	10	0.70	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW
Zinc	18	0.70	mg/Kg dry	1		SW-846 6010C-D	6/18/18	6/19/18 13:48	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F0619

Date Received: 6/13/2018

Field Sample #: MP3

Sampled: 6/7/2018 08:30

Sample ID: 18F0619-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/18/18	6/18/18 14:15	LED
pH @22.8°C	5.8		pH Units	1	H-03	SW-846 9045C	6/14/18	6/14/18 15:25	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	6/18/18	6/19/18 17:10	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	6/18/18	6/19/18 16:25	DJM
Specific conductance	9.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	6/18/18	6/18/18 11:45	MMH
% Solids	96.7		% Wt	1		SM 2540G	6/14/18	6/15/18 7:15	MRL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18F0619-01 [MP11]	B205714	06/14/18
18F0619-02 [MP23]	B205714	06/14/18
18F0619-03 [MP6]	B205714	06/14/18
18F0619-04 [MP9]	B205714	06/14/18
18F0619-05 [MP4]	B205714	06/14/18
18F0619-06 [SB1]	B205714	06/14/18
18F0619-07 [MP22]	B205714	06/14/18
18F0619-08 [MP20]	B205714	06/14/18
18F0619-09 [MP10]	B205714	06/14/18
18F0619-10 [MP3]	B205714	06/14/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0619-01 [MP11]	B205963	1.00	06/18/18
18F0619-02 [MP23]	B205963	1.00	06/18/18
18F0619-03 [MP6]	B205963	1.00	06/18/18
18F0619-04 [MP9]	B205963	1.00	06/18/18
18F0619-05 [MP4]	B205963	1.00	06/18/18
18F0619-06 [SB1]	B205963	1.00	06/18/18
18F0619-07 [MP22]	B205963	1.00	06/18/18
18F0619-08 [MP20]	B205963	1.00	06/18/18
18F0619-09 [MP10]	B205963	1.00	06/18/18
18F0619-10 [MP3]	B205963	1.00	06/18/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0619-01 [MP11]	B206016	50.0	06/18/18
18F0619-02 [MP23]	B206016	50.0	06/18/18
18F0619-03 [MP6]	B206016	50.0	06/18/18
18F0619-04 [MP9]	B206016	50.0	06/18/18
18F0619-05 [MP4]	B206016	50.0	06/18/18
18F0619-06 [SB1]	B206016	50.0	06/18/18
18F0619-07 [MP22]	B206016	50.0	06/18/18
18F0619-08 [MP20]	B206016	50.0	06/18/18
18F0619-09 [MP10]	B206016	50.0	06/18/18
18F0619-10 [MP3]	B206016	50.0	06/18/18

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205989	1.45	50.0	06/18/18
18F0619-02 [MP23]	B205989	1.48	50.0	06/18/18
18F0619-03 [MP6]	B205989	1.50	50.0	06/18/18
18F0619-04 [MP9]	B205989	1.45	50.0	06/18/18
18F0619-05 [MP4]	B205989	1.58	50.0	06/18/18
18F0619-06 [SB1]	B205989	1.54	50.0	06/18/18
18F0619-07 [MP22]	B205989	1.47	50.0	06/18/18
18F0619-08 [MP20]	B205989	1.44	50.0	06/18/18
18F0619-09 [MP10]	B205989	1.48	50.0	06/18/18

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-10 [MP3]	B205989	1.47	50.0	06/18/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205996	0.615	50.0	06/19/18
18F0619-02 [MP23]	B205996	0.630	50.0	06/19/18
18F0619-03 [MP6]	B205996	0.588	50.0	06/19/18
18F0619-04 [MP9]	B205996	0.582	50.0	06/19/18
18F0619-05 [MP4]	B205996	0.608	50.0	06/19/18
18F0619-06 [SB1]	B205996	0.587	50.0	06/19/18
18F0619-07 [MP22]	B205996	0.620	50.0	06/19/18
18F0619-08 [MP20]	B205996	0.574	50.0	06/19/18
18F0619-09 [MP10]	B205996	0.583	50.0	06/19/18
18F0619-10 [MP3]	B205996	0.581	50.0	06/19/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205781	10.0	10.0	06/14/18
18F0619-02 [MP23]	B205781	10.0	10.0	06/14/18
18F0619-03 [MP6]	B205781	10.0	10.0	06/14/18
18F0619-04 [MP9]	B205781	10.0	10.0	06/14/18
18F0619-05 [MP4]	B205781	10.0	10.0	06/14/18
18F0619-06 [SB1]	B205781	10.0	10.0	06/14/18
18F0619-07 [MP22]	B205781	10.0	10.0	06/14/18
18F0619-08 [MP20]	B205781	10.0	10.0	06/14/18
18F0619-09 [MP10]	B205781	10.0	10.0	06/14/18
18F0619-10 [MP3]	B205781	10.0	10.0	06/14/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205782	10.0	10.0	06/14/18
18F0619-02 [MP23]	B205782	10.0	10.0	06/14/18
18F0619-03 [MP6]	B205782	10.0	10.0	06/14/18
18F0619-04 [MP9]	B205782	10.0	10.0	06/14/18
18F0619-05 [MP4]	B205782	10.0	10.0	06/14/18
18F0619-06 [SB1]	B205782	10.0	10.0	06/14/18
18F0619-07 [MP22]	B205782	10.0	10.0	06/14/18
18F0619-08 [MP20]	B205782	10.0	10.0	06/14/18
18F0619-09 [MP10]	B205782	10.0	10.0	06/14/18
18F0619-10 [MP3]	B205782	10.0	10.0	06/14/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205864	30.2	1.00	06/15/18
18F0619-02 [MP23]	B205864	30.3	1.00	06/15/18
18F0619-03 [MP6]	B205864	30.3	1.00	06/15/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-04 [MP9]	B205864	30.4	1.00	06/15/18
18F0619-05 [MP4]	B205864	30.0	1.00	06/15/18
18F0619-06 [SB1]	B205864	30.0	1.00	06/15/18
18F0619-07 [MP22]	B205864	30.3	1.00	06/15/18
18F0619-08 [MP20]	B205864	30.3	1.00	06/15/18
18F0619-09 [MP10]	B205864	30.1	1.00	06/15/18
18F0619-10 [MP3]	B205864	30.5	1.00	06/15/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205568	20.3	5.00	06/13/18
18F0619-02 [MP23]	B205568	20.3	5.00	06/13/18
18F0619-03 [MP6]	B205568	20.1	5.00	06/13/18
18F0619-04 [MP9]	B205568	20.3	5.00	06/13/18
18F0619-05 [MP4]	B205568	20.2	5.00	06/13/18
18F0619-06 [SB1]	B205568	20.0	5.00	06/13/18
18F0619-07 [MP22]	B205568	20.3	5.00	06/13/18
18F0619-08 [MP20]	B205568	20.0	5.00	06/13/18
18F0619-09 [MP10]	B205568	20.0	5.00	06/13/18
18F0619-10 [MP3]	B205568	20.1	5.00	06/13/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-04 [MP9]	B205802	12.8	10.0	06/14/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205836	6.05	10.0	06/15/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-02 [MP23]	B205971	6.10	10.0	06/18/18
18F0619-03 [MP6]	B205971	7.20	10.0	06/18/18
18F0619-05 [MP4]	B205971	6.09	10.0	06/18/18
18F0619-06 [SB1]	B205971	6.48	10.0	06/18/18
18F0619-07 [MP22]	B205971	7.49	10.0	06/18/18
18F0619-08 [MP20]	B205971	6.86	10.0	06/18/18
18F0619-09 [MP10]	B205971	7.34	10.0	06/18/18
18F0619-10 [MP3]	B205971	11.0	10.0	06/18/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B205866	30.2	1.00	06/15/18
18F0619-02 [MP23]	B205866	30.3	1.00	06/15/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-03 [MP6]	B205866	30.3	1.00	06/15/18
18F0619-04 [MP9]	B205866	30.4	1.00	06/15/18
18F0619-05 [MP4]	B205866	30.0	1.00	06/15/18
18F0619-06 [SB1]	B205866	30.0	1.00	06/15/18
18F0619-07 [MP22]	B205866	30.3	1.00	06/15/18
18F0619-08 [MP20]	B205866	30.3	1.00	06/15/18
18F0619-09 [MP10]	B205866	30.1	1.00	06/15/18
18F0619-10 [MP3]	B205866	30.5	1.00	06/15/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-02 [MP23]	B205965	25.8	250	06/18/18
18F0619-03 [MP6]	B205965	25.1	250	06/18/18
18F0619-04 [MP9]	B205965	25.2	250	06/18/18
18F0619-05 [MP4]	B205965	25.1	250	06/18/18
18F0619-06 [SB1]	B205965	25.7	250	06/18/18
18F0619-07 [MP22]	B205965	25.3	250	06/18/18
18F0619-08 [MP20]	B205965	25.5	250	06/18/18
18F0619-09 [MP10]	B205965	25.3	250	06/18/18
18F0619-10 [MP3]	B205965	25.4	250	06/18/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B206096	25.5	250	06/19/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-02 [MP23]	B205968	25.8	250	06/18/18
18F0619-03 [MP6]	B205968	25.1	250	06/18/18
18F0619-04 [MP9]	B205968	25.2	250	06/18/18
18F0619-05 [MP4]	B205968	25.1	250	06/18/18
18F0619-06 [SB1]	B205968	25.7	250	06/18/18
18F0619-07 [MP22]	B205968	25.3	250	06/18/18
18F0619-08 [MP20]	B205968	25.5	250	06/18/18
18F0619-09 [MP10]	B205968	25.3	250	06/18/18
18F0619-10 [MP3]	B205968	25.4	250	06/18/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F0619-01 [MP11]	B206097	25.5	250	06/19/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0619-01 [MP11]	B205790	20.0	06/14/18

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Sample Extraction Data

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18F0619-02 [MP23]	B205790	20.0	06/14/18
18F0619-03 [MP6]	B205790	20.0	06/14/18
18F0619-04 [MP9]	B205790	20.0	06/14/18
18F0619-05 [MP4]	B205790	20.0	06/14/18
18F0619-06 [SB1]	B205790	20.0	06/14/18
18F0619-07 [MP22]	B205790	20.0	06/14/18
18F0619-08 [MP20]	B205790	20.0	06/14/18
18F0619-09 [MP10]	B205790	20.0	06/14/18
18F0619-10 [MP3]	B205790	20.0	06/14/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205802 - SW-846 5035

Blank (B205802-BLK1)

Prepared & Analyzed: 06/15/18

Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205802 - SW-846 5035

Blank (B205802-BLK1)

Prepared & Analyzed: 06/15/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.1	70-130			

LCS (B205802-BS1)

Prepared & Analyzed: 06/15/18

Acetone	0.202	0.10	mg/Kg wet	0.200		101	40-160			R-05 †
tert-Amyl Methyl Ether (TAME)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Bromodichloromethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
Bromomethane	0.0127	0.010	mg/Kg wet	0.0200		63.5	40-160			L-14, V-34 †
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	40-160			R-05 †
n-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
sec-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		98.8	70-130			
Carbon Disulfide	0.0201	0.0060	mg/Kg wet	0.0200		101	70-130			
Carbon Tetrachloride	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Chlorodibromomethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Chloroethane	0.0188	0.010	mg/Kg wet	0.0200		94.0	70-130			
Chloroform	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Chloromethane	0.0192	0.010	mg/Kg wet	0.0200		95.9	40-160			†
2-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
4-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205802 - SW-846 5035										
LCS (B205802-BS1)										
Prepared & Analyzed: 06/15/18										
Dichlorodifluoromethane (Freon 12)	0.0196	0.010	mg/Kg wet	0.0200		98.1	40-160			†
1,1-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,1-Dichloroethylene	0.0198	0.0040	mg/Kg wet	0.0200		99.1	70-130			
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
trans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichloropropane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130			
2,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,1-Dichloropropene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		96.8	70-130			
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130			
Diethyl Ether	0.0191	0.010	mg/Kg wet	0.0200		95.3	70-130			
Diisopropyl Ether (DIPE)	0.0191	0.0010	mg/Kg wet	0.0200		95.7	70-130			
1,4-Dioxane	0.199	0.10	mg/Kg wet	0.200		99.4	40-160			V-16 †
Ethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
2-Hexanone (MBK)	0.209	0.020	mg/Kg wet	0.200		105	40-160			R-05 †
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130			
Methylene Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.7	70-130			
4-Methyl-2-pentanone (MIBK)	0.203	0.020	mg/Kg wet	0.200		101	40-160			†
Naphthalene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
n-Propylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Styrene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1,2,2-Tetrachloroethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2,3-Trichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1-Trichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Trichlorofluoromethane (Freon 11)	0.0187	0.010	mg/Kg wet	0.0200		93.6	70-130			
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
1,2,4-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3,5-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
Vinyl Chloride	0.0191	0.010	mg/Kg wet	0.0200		95.5	70-130			
m+p Xylene	0.0377	0.0040	mg/Kg wet	0.0400		94.2	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0490		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0483		mg/Kg wet	0.0500		96.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205802 - SW-846 5035										
LCS Dup (B205802-BSD1)										
Prepared & Analyzed: 06/15/18										
Acetone	0.516	0.10	mg/Kg wet	0.200		258 *	40-160	87.3 *	20	L-07A, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	1.68	20	
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	0.205	20	
Bromobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.805	20	
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130	0.223	20	
Bromodichloromethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	2.67	20	
Bromoform	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.36	20	
Bromomethane	0.0141	0.010	mg/Kg wet	0.0200		70.3	40-160	10.1	20	V-34 †
2-Butanone (MEK)	0.397	0.040	mg/Kg wet	0.200		199 *	40-160	60.9 *	20	L-07A, R-05 †
n-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.61	20	
sec-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.316	20	
tert-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.36	20	
tert-Butyl Ethyl Ether (TBEE)	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130	0.535	20	
Carbon Disulfide	0.0207	0.0060	mg/Kg wet	0.0200		104	70-130	2.92	20	
Carbon Tetrachloride	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.612	20	
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	3.27	20	
Chlorodibromomethane	0.0215	0.0010	mg/Kg wet	0.0200		108	70-130	2.34	20	
Chloroethane	0.0190	0.010	mg/Kg wet	0.0200		95.1	70-130	1.08	20	
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130	0.498	20	
Chloromethane	0.0189	0.010	mg/Kg wet	0.0200		94.7	40-160	1.26	20	†
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.81	20	
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	0.989	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	1.99	20	
1,2-Dibromoethane (EDB)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	0.487	20	
Dibromomethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	7.77	20	
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.809	20	
1,3-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.10	20	
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	1.08	20	
Dichlorodifluoromethane (Freon 12)	0.0200	0.010	mg/Kg wet	0.0200		100	40-160	1.98	20	†
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.487	20	
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.49	20	
1,1-Dichloroethylene	0.0198	0.0040	mg/Kg wet	0.0200		99.2	70-130	0.111	20	
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.73	20	
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	1.15	20	
1,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	2.31	20	
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	4.26	20	
2,2-Dichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	3.08	20	
1,1-Dichloropropene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.68	20	
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	0.0517	20	
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130	3.33	20	
Diethyl Ether	0.0201	0.010	mg/Kg wet	0.0200		101	70-130	5.39	20	
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.0200		93.5	70-130	2.40	20	
1,4-Dioxane	0.231	0.10	mg/Kg wet	0.200		116	40-160	15.2	20	V-16 †
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.69	20	
Hexachlorobutadiene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	3.41	20	
2-Hexanone (MBK)	0.349	0.020	mg/Kg wet	0.200		175 *	40-160	50.3 *	20	L-07A, R-05 †
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.40	20	
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.08	20	
Methyl tert-Butyl Ether (MTBE)	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	2.68	20	
Methylene Chloride	0.0190	0.010	mg/Kg wet	0.0200		94.9	70-130	0.179	20	
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	40-160	7.42	20	†
Naphthalene	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	4.33	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205802 - SW-846 5035										
LCS Dup (B205802-BSD1)										
Prepared & Analyzed: 06/15/18										
n-Propylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	0.309	20	
Styrene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	0.979	20	
1,1,1,2-Tetrachloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.761	20	
1,1,2,2-Tetrachloroethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	0.0785	20	
Tetrachloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	4.31	20	
Tetrahydrofuran	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	6.85	20	
Toluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	4.47	20	
1,2,3-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	3.99	20	
1,2,4-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.30	20	
1,1,1-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.39	20	
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	2.87	20	
Trichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	4.90	20	
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.0200		92.6	70-130	1.15	20	
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	0.0521	20	
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.675	20	
1,3,5-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	1.48	20	
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.6	70-130	0.958	20	
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.0400		93.4	70-130	0.847	20	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	0.557	20	
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0489		mg/Kg wet	0.0500		97.8	70-130			
Batch B205836 - SW-846 5035										
Blank (B205836-BLK1)										
Prepared & Analyzed: 06/15/18										
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205836 - SW-846 5035										
Blank (B205836-BLK1)										
Prepared & Analyzed: 06/15/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05, V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0480		mg/Kg wet	0.0500		96.1	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0482		mg/Kg wet	0.0500		96.5	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205836 - SW-846 5035										
LCS (B205836-BS1)										
Prepared & Analyzed: 06/15/18										
Acetone	0.232	0.10	mg/Kg wet	0.200		116	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0172	0.0010	mg/Kg wet	0.0200		86.1	70-130			
Benzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
Bromobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
Bromochloromethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Bromodichloromethane	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0124	0.010	mg/Kg wet	0.0200		62.0	40-160			L-14, V-34 †
2-Butanone (MEK)	0.223	0.040	mg/Kg wet	0.200		111	40-160			†
n-Butylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130			
sec-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
tert-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.0200		88.9	70-130			
Carbon Disulfide	0.0209	0.0060	mg/Kg wet	0.0200		104	70-130			
Carbon Tetrachloride	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Chlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		96.8	70-130			
Chloroethane	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.3	70-130			
Chloromethane	0.0192	0.010	mg/Kg wet	0.0200		96.1	40-160			†
2-Chlorotoluene	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
4-Chlorotoluene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,2-Dibromoethane (EDB)	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130			
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,3-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
Dichlorodifluoromethane (Freon 12)	0.0150	0.010	mg/Kg wet	0.0200		75.2	40-160			V-05, V-34 †
1,1-Dichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		100	70-130			
cis-1,2-Dichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3-Dichloropropane	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130			
2,2-Dichloropropane	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130			
1,1-Dichloropropene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.3	70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130			
Diethyl Ether	0.0207	0.010	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0176	0.0010	mg/Kg wet	0.0200		88.2	70-130			
1,4-Dioxane	0.172	0.10	mg/Kg wet	0.200		85.8	40-160			V-16 †
Ethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130			
Hexachlorobutadiene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
2-Hexanone (MBK)	0.224	0.020	mg/Kg wet	0.200		112	40-160			†
Isopropylbenzene (Cumene)	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
p-Isopropyltoluene (p-Cymene)	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0187	0.0040	mg/Kg wet	0.0200		93.5	70-130			
Methylene Chloride	0.0183	0.010	mg/Kg wet	0.0200		91.3	70-130			
4-Methyl-2-pentanone (MIBK)	0.223	0.020	mg/Kg wet	0.200		111	40-160			†
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205836 - SW-846 5035										
LCS (B205836-BS1)										
Prepared & Analyzed: 06/15/18										
n-Propylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Styrene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
1,1,1,2-Tetrachloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,2,2-Tetrachloroethane	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130			
Tetrachloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.4	70-130			V-16
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
1,2,3-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,4-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1-Trichloroethane	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
1,1,2-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.0200		89.9	70-130			
1,2,3-Trichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,2,4-Trimethylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-130			
1,3,5-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
Vinyl Chloride	0.0176	0.010	mg/Kg wet	0.0200		87.9	70-130			
m+p Xylene	0.0356	0.0040	mg/Kg wet	0.0400		89.0	70-130			
o-Xylene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0484		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			
LCS Dup (B205836-BSD1)										
Prepared & Analyzed: 06/15/18										
Acetone	0.228	0.10	mg/Kg wet	0.200		114	40-160	1.64	20	†
tert-Amyl Methyl Ether (TAME)	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130	0.233	20	
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130	1.15	20	
Bromobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130	2.15	20	
Bromochloromethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	5.99	20	
Bromodichloromethane	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	3.38	20	
Bromoform	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.52	20	
Bromomethane	0.0147	0.010	mg/Kg wet	0.0200		73.5	40-160	17.0	20	V-34 †
2-Butanone (MEK)	0.210	0.040	mg/Kg wet	0.200		105	40-160	6.07	20	†
n-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7	70-130	0.578	20	
sec-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130	3.02	20	
tert-Butylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130	3.95	20	
tert-Butyl Ethyl Ether (TBEE)	0.0177	0.0010	mg/Kg wet	0.0200		88.4	70-130	0.564	20	
Carbon Disulfide	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130	3.11	20	
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	2.98	20	
Chlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	3.53	20	
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		96.9	70-130	0.103	20	
Chloroethane	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	0.0947	20	
Chloroform	0.0181	0.0040	mg/Kg wet	0.0200		90.6	70-130	2.94	20	
Chloromethane	0.0185	0.010	mg/Kg wet	0.0200		92.4	40-160	3.93	20	†
2-Chlorotoluene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130	1.72	20	
4-Chlorotoluene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130	1.59	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130	1.32	20	
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.4	70-130	3.16	20	
Dibromomethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.291	20	
1,2-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	5.86	20	
1,3-Dichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	4.36	20	
1,4-Dichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130	3.66	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205836 - SW-846 5035										
LCS Dup (B205836-BSD1)										
Prepared & Analyzed: 06/15/18										
Dichlorodifluoromethane (Freon 12)	0.0155	0.010	mg/Kg wet	0.0200		77.6	40-160	3.14	20	V-05, V-34 †
1,1-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	3.31	20	
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	0.00	20	
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.398	20	
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	0.951	20	
trans-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130	1.88	20	
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.494	20	
1,3-Dichloropropane	0.0179	0.0010	mg/Kg wet	0.0200		89.7	70-130	0.223	20	
2,2-Dichloropropane	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130	3.46	20	
1,1-Dichloropropene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	0.803	20	
cis-1,3-Dichloropropene	0.0171	0.0010	mg/Kg wet	0.0200		85.4	70-130	7.77	20	
trans-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		89.8	70-130	10.2	20	
Diethyl Ether	0.0185	0.010	mg/Kg wet	0.0200		92.7	70-130	10.9	20	
Diisopropyl Ether (DIPE)	0.0172	0.0010	mg/Kg wet	0.0200		86.0	70-130	2.53	20	
1,4-Dioxane	0.155	0.10	mg/Kg wet	0.200		77.4	40-160	10.3	20	V-16 †
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	1.31	20	
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	5.03	20	
2-Hexanone (MBK)	0.206	0.020	mg/Kg wet	0.200		103	40-160	8.14	20	†
Isopropylbenzene (Cumene)	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	5.11	20	
p-Isopropyltoluene (p-Cymene)	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130	2.91	20	
Methyl tert-Butyl Ether (MTBE)	0.0179	0.0040	mg/Kg wet	0.0200		89.4	70-130	4.48	20	
Methylene Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.3	70-130	1.10	20	
4-Methyl-2-pentanone (MIBK)	0.212	0.020	mg/Kg wet	0.200		106	40-160	4.78	20	†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.7	70-130	8.29	20	
n-Propylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	0.777	20	
Styrene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	0.107	20	
1,1,1,2-Tetrachloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	6.35	20	
1,1,2,2-Tetrachloroethane	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130	9.85	20	
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	3.02	20	
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130	8.17	20	V-16
Toluene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	0.784	20	
1,2,3-Trichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	1.18	20	
1,2,4-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	2.51	20	
1,1,1-Trichloroethane	0.0165	0.0020	mg/Kg wet	0.0200		82.6	70-130	4.50	20	
1,1,2-Trichloroethane	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	8.65	20	
Trichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130	1.12	20	
Trichlorofluoromethane (Freon 11)	0.0179	0.010	mg/Kg wet	0.0200		89.5	70-130	0.446	20	
1,2,3-Trichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	3.20	20	
1,2,4-Trimethylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130	0.231	20	
1,3,5-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	2.00	20	
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.5	70-130	0.680	20	
m+p Xylene	0.0362	0.0040	mg/Kg wet	0.0400		90.4	70-130	1.50	20	
o-Xylene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	0.457	20	
Surrogate: 1,2-Dichloroethane-d4	0.0482		mg/Kg wet	0.0500		96.4	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205971 - SW-846 5035										
Blank (B205971-BLK1)										
Prepared & Analyzed: 06/18/18										
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							R-05, V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205971 - SW-846 5035

Blank (B205971-BLK1)

Prepared & Analyzed: 06/18/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0480		mg/Kg wet	0.0500		95.9	70-130			

LCS (B205971-BS1)

Prepared & Analyzed: 06/18/18

Acetone	0.179	0.10	mg/Kg wet	0.200		89.4	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130			
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Bromobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Bromochloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Bromoform	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromomethane	0.0122	0.010	mg/Kg wet	0.0200		60.8	40-160		L-14, V-34	†
2-Butanone (MEK)	0.199	0.040	mg/Kg wet	0.200		99.3	40-160			†
n-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
sec-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
Carbon Disulfide	0.0190	0.0060	mg/Kg wet	0.0200		94.8	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
Chlorodibromomethane	0.0211	0.0010	mg/Kg wet	0.0200		105	70-130			
Chloroethane	0.0179	0.010	mg/Kg wet	0.0200		89.4	70-130			
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.0	70-130			
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		87.2	40-160			†
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130			
Dibromomethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,4-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205971 - SW-846 5035										
LCS (B205971-BS1)										
Prepared & Analyzed: 06/18/18										
Dichlorodifluoromethane (Freon 12)	0.0175	0.010	mg/Kg wet	0.0200		87.7	40-160			†
1,1-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130			
1,1-Dichloroethylene	0.0184	0.0040	mg/Kg wet	0.0200		91.8	70-130			
cis-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.7	70-130			
2,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,1-Dichloropropene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
cis-1,3-Dichloropropene	0.0176	0.0010	mg/Kg wet	0.0200		88.0	70-130			
trans-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.6	70-130			
Diethyl Ether	0.0181	0.010	mg/Kg wet	0.0200		90.4	70-130			
Diisopropyl Ether (DIPE)	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130			
1,4-Dioxane	0.182	0.10	mg/Kg wet	0.200		91.0	40-160		R-05, V-16	†
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
Hexachlorobutadiene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
2-Hexanone (MBK)	0.207	0.020	mg/Kg wet	0.200		104	40-160			†
Isopropylbenzene (Cumene)	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0191	0.0040	mg/Kg wet	0.0200		95.7	70-130			
Methylene Chloride	0.0178	0.010	mg/Kg wet	0.0200		88.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		100	40-160			†
Naphthalene	0.0200	0.0040	mg/Kg wet	0.0200		99.8	70-130			
n-Propylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130			
Styrene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,1,1,2-Tetrachloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Tetrahydrofuran	0.0169	0.010	mg/Kg wet	0.0200		84.7	70-130			
Toluene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
1,2,3-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0173	0.010	mg/Kg wet	0.0200		86.5	70-130			
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,2,4-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3,5-Trimethylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130			
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.0200		87.2	70-130			
m+p Xylene	0.0340	0.0040	mg/Kg wet	0.0400		85.1	70-130			
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/Kg wet	0.0500		98.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205971 - SW-846 5035										
LCS Dup (B205971-BSD1)										
Prepared & Analyzed: 06/18/18										
Acetone	0.204	0.10	mg/Kg wet	0.200		102	40-160	13.1	20	†
tert-Amyl Methyl Ether (TAME)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	7.76	20	
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	9.17	20	
Bromobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	5.41	20	
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	9.65	20	
Bromodichloromethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	5.83	20	
Bromoform	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.98	20	
Bromomethane	0.0142	0.010	mg/Kg wet	0.0200		71.2	40-160	15.7	20	V-34 †
2-Butanone (MEK)	0.213	0.040	mg/Kg wet	0.200		107	40-160	7.08	20	†
n-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	4.09	20	
sec-Butylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	5.91	20	
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	8.38	20	
tert-Butyl Ethyl Ether (TBEE)	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	6.99	20	
Carbon Disulfide	0.0209	0.0060	mg/Kg wet	0.0200		105	70-130	9.78	20	
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	10.8	20	
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	7.88	20	
Chlorodibromomethane	0.0225	0.0010	mg/Kg wet	0.0200		113	70-130	6.74	20	
Chloroethane	0.0187	0.010	mg/Kg wet	0.0200		93.6	70-130	4.59	20	
Chloroform	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130	10.5	20	
Chloromethane	0.0185	0.010	mg/Kg wet	0.0200		92.4	40-160	5.76	20	†
2-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	8.46	20	
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130	4.42	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	0.970	20	
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	6.82	20	
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	11.0	20	
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	3.24	20	
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	4.35	20	
1,4-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	7.36	20	
Dichlorodifluoromethane (Freon 12)	0.0190	0.010	mg/Kg wet	0.0200		94.9	40-160	7.91	20	†
1,1-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	5.82	20	
1,2-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	7.19	20	
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130	10.3	20	
cis-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	8.69	20	
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	8.75	20	
1,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	12.9	20	
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	7.79	20	
2,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	6.58	20	
1,1-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.94	20	
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.3	70-130	8.95	20	
trans-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		96.8	70-130	3.31	20	
Diethyl Ether	0.0197	0.010	mg/Kg wet	0.0200		98.4	70-130	8.46	20	
Diisopropyl Ether (DIPE)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	7.72	20	
1,4-Dioxane	0.229	0.10	mg/Kg wet	0.200		115	40-160	23.0 *	20	R-05, V-16 †
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	10.5	20	
Hexachlorobutadiene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.91	20	
2-Hexanone (MBK)	0.226	0.020	mg/Kg wet	0.200		113	40-160	8.73	20	†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.06	20	
p-Isopropyltoluene (p-Cymene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	4.66	20	
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	5.67	20	
Methylene Chloride	0.0191	0.010	mg/Kg wet	0.0200		95.6	70-130	7.22	20	
4-Methyl-2-pentanone (MIBK)	0.214	0.020	mg/Kg wet	0.200		107	40-160	6.75	20	†
Naphthalene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	6.06	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205971 - SW-846 5035										
LCS Dup (B205971-BSD1)										
Prepared & Analyzed: 06/18/18										
n-Propylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	7.10	20	
Styrene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130	6.22	20	
1,1,1,2-Tetrachloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	6.58	20	
1,1,2,2-Tetrachloroethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130	5.44	20	
Tetrachloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.54	20	
Tetrahydrofuran	0.0198	0.010	mg/Kg wet	0.0200		98.9	70-130	15.4	20	
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	10.3	20	
1,2,3-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	6.33	20	
1,2,4-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.947	20	
1,1,1-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	5.96	20	
1,1,2-Trichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	11.0	20	
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	11.7	20	
Trichlorofluoromethane (Freon 11)	0.0187	0.010	mg/Kg wet	0.0200		93.4	70-130	7.73	20	
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	7.29	20	
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	4.14	20	
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	4.76	20	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		96.0	70-130	9.68	20	
m+p Xylene	0.0373	0.0040	mg/Kg wet	0.0400		93.1	70-130	9.06	20	
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	5.48	20	
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205866 - SW-846 3546

Blank (B205866-BLK1)

Prepared: 06/15/18 Analyzed: 06/18/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-34
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205866 - SW-846 3546										
Blank (B205866-BLK1)										
					Prepared: 06/15/18 Analyzed: 06/18/18					
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.45		mg/Kg wet	6.67		66.8	30-130			
Surrogate: Phenol-d6	4.55		mg/Kg wet	6.67		68.2	30-130			
Surrogate: Nitrobenzene-d5	2.06		mg/Kg wet	3.33		61.7	30-130			
Surrogate: 2-Fluorobiphenyl	1.94		mg/Kg wet	3.33		58.3	30-130			
Surrogate: 2,4,6-Tribromophenol	4.48		mg/Kg wet	6.67		67.2	30-130			
Surrogate: p-Terphenyl-d14	2.35		mg/Kg wet	3.33		70.6	30-130			
LCS (B205866-BS1)										
					Prepared: 06/15/18 Analyzed: 06/18/18					
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Acenaphthylene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140			
Acetophenone	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
Aniline	1.27	0.34	mg/Kg wet	1.67		76.3	40-140			V-04
Anthracene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Benzo(a)pyrene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140			
Benzo(g,h,i)perylene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140			
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Bis(2-chloroethoxy)methane	1.24	0.34	mg/Kg wet	1.67		74.4	40-140			
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.67		62.6	40-140			
Bis(2-chloroisopropyl)ether	1.23	0.34	mg/Kg wet	1.67		74.0	40-140			
Bis(2-Ethylhexyl)phthalate	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
4-Bromophenylphenylether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140			
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.4	40-140			
4-Chloroaniline	1.11	0.66	mg/Kg wet	1.67		66.5	15-140			V-34 †
2-Chloronaphthalene	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			
2-Chlorophenol	1.11	0.34	mg/Kg wet	1.67		66.4	30-130			
Chrysene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Dibenz(a,h)anthracene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140			
Dibenzofuran	1.24	0.34	mg/Kg wet	1.67		74.3	40-140			
Di-n-butylphthalate	1.25	0.34	mg/Kg wet	1.67		75.1	40-140			
1,2-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
1,3-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
1,4-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.5	40-140			
3,3-Dichlorobenzidine	1.03	0.17	mg/Kg wet	1.73		59.5	40-140			V-34
2,4-Dichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130			
Diethylphthalate	1.20	0.34	mg/Kg wet	1.67		71.7	40-140			
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		74.8	30-130			
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.3	40-140			
2,4-Dinitrophenol	0.386	0.66	mg/Kg wet	1.67		23.2	15-140			V-05 †
2,4-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140			
2,6-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.67		71.1	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
Fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205866 - SW-846 3546										
LCS (B205866-BS1)										
					Prepared: 06/15/18 Analyzed: 06/18/18					
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.4	40-140			
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		65.8	40-140			
Hexachloroethane	1.00	0.34	mg/Kg wet	1.67		60.2	40-140			
Indeno(1,2,3-cd)pyrene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140			
Isophorone	1.20	0.34	mg/Kg wet	1.67		71.8	40-140			
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140			
2-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.6	30-130			
3/4-Methylphenol	1.27	0.34	mg/Kg wet	1.67		76.2	30-130			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140			
Nitrobenzene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140			
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.67		68.3	30-130			
4-Nitrophenol	1.18	0.66	mg/Kg wet	1.67		70.8	15-140			†
Pentachlorophenol	0.891	0.34	mg/Kg wet	1.67		53.4	30-130			
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Phenol	1.16	0.34	mg/Kg wet	1.67		69.4	15-140			†
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140			
Pyridine	0.829	0.34	mg/Kg wet	1.67		49.7	30-140			†
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.3	30-130			
2,4,6-Trichlorophenol	1.18	0.34	mg/Kg wet	1.67		70.8	30-130			
Surrogate: 2-Fluorophenol	5.06		mg/Kg wet	6.67		76.0	30-130			
Surrogate: Phenol-d6	5.18		mg/Kg wet	6.67		77.7	30-130			
Surrogate: Nitrobenzene-d5	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.29		mg/Kg wet	3.33		68.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.67		mg/Kg wet	6.67		85.0	30-130			
Surrogate: p-Terphenyl-d14	2.90		mg/Kg wet	3.33		86.9	30-130			
LCS Dup (B205866-BS1)										
					Prepared: 06/15/18 Analyzed: 06/18/18					
Acenaphthene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140	12.0	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	11.6	30	
Acetophenone	0.951	0.34	mg/Kg wet	1.67		57.1	40-140	17.3	30	
Aniline	0.977	0.34	mg/Kg wet	1.67		58.6	40-140	26.1	30	V-04
Anthracene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140	10.7	30	
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	10.5	30	
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	9.98	30	
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140	8.06	30	
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	13.8	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	9.06	30	
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	17.4	30	
Bis(2-chloroethyl)ether	0.890	0.34	mg/Kg wet	1.67		53.4	40-140	15.8	30	
Bis(2-chloroisopropyl)ether	0.999	0.34	mg/Kg wet	1.67		60.0	40-140	21.0	30	
Bis(2-Ethylhexyl)phthalate	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	14.7	30	
4-Bromophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	10.2	30	
Butylbenzylphthalate	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	12.4	30	
4-Chloroaniline	0.926	0.66	mg/Kg wet	1.67		55.6	15-140	17.8	30	V-34 †
2-Chloronaphthalene	0.914	0.34	mg/Kg wet	1.67		54.8	40-140	12.1	30	
2-Chlorophenol	0.923	0.34	mg/Kg wet	1.67		55.4	30-130	18.0	30	
Chrysene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	11.2	30	
Dibenz(a,h)anthracene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	14.4	30	
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.3	40-140	11.4	30	
Di-n-butylphthalate	1.10	0.34	mg/Kg wet	1.67		66.1	40-140	12.7	30	
1,2-Dichlorobenzene	0.825	0.34	mg/Kg wet	1.67		49.5	40-140	23.2	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205866 - SW-846 3546

LCS Dup (B205866-BSD1)

Prepared: 06/15/18 Analyzed: 06/18/18

1,3-Dichlorobenzene	0.778	0.34	mg/Kg wet	1.67		46.7	40-140	25.9	30	
1,4-Dichlorobenzene	0.793	0.34	mg/Kg wet	1.67		47.6	40-140	24.0	30	
3,3-Dichlorobenzidine	0.872	0.17	mg/Kg wet	1.73		50.4	40-140	16.5	30	V-34
2,4-Dichlorophenol	1.02	0.34	mg/Kg wet	1.67		61.2	30-130	13.6	30	
Diethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	12.0	30	
2,4-Dimethylphenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130	12.1	30	
Dimethylphthalate	1.11	0.34	mg/Kg wet	1.67		66.7	40-140	10.7	30	
2,4-Dinitrophenol	0.357	0.66	mg/Kg wet	1.67		21.4	15-140	7.99	30	V-05 †
2,4-Dinitrotoluene	1.07	0.34	mg/Kg wet	1.67		64.3	40-140	10.4	30	
2,6-Dinitrotoluene	1.10	0.34	mg/Kg wet	1.67		66.3	40-140	10.3	30	
Di-n-octylphthalate	1.03	0.34	mg/Kg wet	1.67		62.0	40-140	13.8	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.11	0.34	mg/Kg wet	1.67		66.3	40-140	11.2	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140	11.5	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	9.70	30	
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	12.4	30	
Hexachlorobutadiene	0.862	0.34	mg/Kg wet	1.67		51.7	40-140	24.0	30	
Hexachloroethane	0.778	0.34	mg/Kg wet	1.67		46.7	40-140	25.3	30	
Indeno(1,2,3-cd)pyrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	14.3	30	
Isophorone	1.03	0.34	mg/Kg wet	1.67		61.8	40-140	14.9	30	
2-Methylnaphthalene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	15.6	30	
2-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.7	30-130	13.3	30	
3/4-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.2	30-130	11.1	30	
Naphthalene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140	18.2	30	
Nitrobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	18.3	30	
2-Nitrophenol	0.971	0.34	mg/Kg wet	1.67		58.3	30-130	15.8	30	
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.4	15-140	11.1	30	†
Pentachlorophenol	0.772	0.34	mg/Kg wet	1.67		46.3	30-130	14.3	30	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.8	30	
Phenol	1.01	0.34	mg/Kg wet	1.67		60.5	15-140	13.8	30	†
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.7	40-140	8.24	30	
Pyridine	0.633	0.34	mg/Kg wet	1.67		38.0	30-140	26.7	30	†
1,2,4-Trichlorobenzene	0.879	0.34	mg/Kg wet	1.67		52.7	40-140	21.3	30	
2,4,5-Trichlorophenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130	10.9	30	
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9	30-130	10.2	30	
Surrogate: 2-Fluorophenol	4.10		mg/Kg wet	6.67		61.4	30-130			
Surrogate: Phenol-d6	4.45		mg/Kg wet	6.67		66.7	30-130			
Surrogate: Nitrobenzene-d5	1.91		mg/Kg wet	3.33		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.91		mg/Kg wet	3.33		57.4	30-130			
Surrogate: 2,4,6-Tribromophenol	5.03		mg/Kg wet	6.67		75.5	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg wet	3.33		77.2	30-130			

Matrix Spike (B205866-MS1)

Source: 18F0619-02

Prepared: 06/15/18 Analyzed: 06/18/18

Acenaphthene	1.14	0.20	mg/Kg dry	1.93	ND	59.0	40-140			
Acenaphthylene	1.21	0.20	mg/Kg dry	1.93	ND	62.6	40-140			
Acetophenone	1.11	0.39	mg/Kg dry	1.93	ND	57.4	40-140			
Aniline	1.17	0.39	mg/Kg dry	1.93	ND	60.7	40-140			V-04
Anthracene	1.31	0.20	mg/Kg dry	1.93	ND	67.7	40-140			
Benzo(a)anthracene	1.28	0.20	mg/Kg dry	1.93	ND	66.1	40-140			
Benzo(a)pyrene	1.31	0.20	mg/Kg dry	1.93	ND	67.7	40-140			
Benzo(b)fluoranthene	1.30	0.20	mg/Kg dry	1.93	ND	67.1	40-140			
Benzo(g,h,i)perylene	1.12	0.20	mg/Kg dry	1.93	ND	57.8	40-140			
Benzo(k)fluoranthene	1.32	0.20	mg/Kg dry	1.93	ND	68.2	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205866 - SW-846 3546										
Matrix Spike (B205866-MS1)	Source: 18F0619-02			Prepared: 06/15/18 Analyzed: 06/18/18						
Bis(2-chloroethoxy)methane	1.22	0.39	mg/Kg dry	1.93	ND	63.4	40-140			
Bis(2-chloroethyl)ether	1.09	0.39	mg/Kg dry	1.93	ND	56.5	40-140			
Bis(2-chloroisopropyl)ether	1.17	0.39	mg/Kg dry	1.93	ND	60.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.20	0.39	mg/Kg dry	1.93	ND	62.2	40-140			
4-Bromophenylphenylether	1.32	0.39	mg/Kg dry	1.93	ND	68.5	40-140			
Butylbenzylphthalate	1.23	0.39	mg/Kg dry	1.93	ND	63.7	40-140			
4-Chloroaniline	1.18	0.77	mg/Kg dry	1.93	ND	61.0	40-140			V-34
2-Chloronaphthalene	1.13	0.39	mg/Kg dry	1.93	ND	58.4	40-140			
2-Chlorophenol	1.11	0.39	mg/Kg dry	1.93	ND	57.3	30-130			
Chrysene	1.20	0.20	mg/Kg dry	1.93	ND	62.2	40-140			
Dibenz(a,h)anthracene	1.11	0.20	mg/Kg dry	1.93	ND	57.5	40-140			
Dibenzofuran	1.26	0.39	mg/Kg dry	1.93	ND	65.2	40-140			
Di-n-butylphthalate	1.23	0.39	mg/Kg dry	1.93	ND	63.5	40-140			
1,2-Dichlorobenzene	1.05	0.39	mg/Kg dry	1.93	ND	54.4	40-140			
1,3-Dichlorobenzene	1.01	0.39	mg/Kg dry	1.93	ND	52.5	40-140			
1,4-Dichlorobenzene	1.03	0.39	mg/Kg dry	1.93	ND	53.4	40-140			
3,3-Dichlorobenzidine	1.25	0.20	mg/Kg dry	2.01	ND	62.4	40-140			V-34
2,4-Dichlorophenol	1.19	0.39	mg/Kg dry	1.93	ND	61.8	30-130			
Diethylphthalate	1.14	0.39	mg/Kg dry	1.93	ND	59.2	40-140			
2,4-Dimethylphenol	1.28	0.39	mg/Kg dry	1.93	ND	66.2	30-130			
Dimethylphthalate	1.25	0.39	mg/Kg dry	1.93	ND	64.5	40-140			
2,4-Dinitrophenol	0.913	0.77	mg/Kg dry	1.93	ND	47.2	30-130			V-05
2,4-Dinitrotoluene	1.17	0.39	mg/Kg dry	1.93	ND	60.7	40-140			
2,6-Dinitrotoluene	1.23	0.39	mg/Kg dry	1.93	ND	63.4	40-140			
Di-n-octylphthalate	1.20	0.39	mg/Kg dry	1.93	ND	62.0	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.39	mg/Kg dry	1.93	ND	68.5	40-140			
Fluoranthene	1.26	0.20	mg/Kg dry	1.93	ND	65.4	40-140			
Fluorene	1.21	0.20	mg/Kg dry	1.93	ND	62.4	40-140			
Hexachlorobenzene	1.31	0.39	mg/Kg dry	1.93	ND	67.8	40-140			
Hexachlorobutadiene	1.12	0.39	mg/Kg dry	1.93	ND	58.0	40-140			
Hexachloroethane	0.988	0.39	mg/Kg dry	1.93	ND	51.1	40-140			
Indeno(1,2,3-cd)pyrene	1.12	0.20	mg/Kg dry	1.93	ND	57.7	40-140			
Isophorone	1.18	0.39	mg/Kg dry	1.93	ND	61.2	40-140			
2-Methylnaphthalene	1.28	0.20	mg/Kg dry	1.93	ND	66.4	40-140			
2-Methylphenol	1.17	0.39	mg/Kg dry	1.93	ND	60.3	30-130			
3/4-Methylphenol	1.25	0.39	mg/Kg dry	1.93	ND	64.5	30-130			
Naphthalene	1.16	0.20	mg/Kg dry	1.93	ND	60.2	40-140			
Nitrobenzene	1.08	0.39	mg/Kg dry	1.93	ND	56.0	40-140			
2-Nitrophenol	1.17	0.39	mg/Kg dry	1.93	ND	60.4	30-130			
4-Nitrophenol	1.08	0.77	mg/Kg dry	1.93	ND	56.0	30-130			
Pentachlorophenol	0.999	0.39	mg/Kg dry	1.93	ND	51.7	30-130			
Phenanthrene	1.32	0.20	mg/Kg dry	1.93	ND	68.1	40-140			
Phenol	1.16	0.39	mg/Kg dry	1.93	ND	59.9	30-130			
Pyrene	1.31	0.20	mg/Kg dry	1.93	ND	67.8	40-140			
Pyridine	0.806	0.39	mg/Kg dry	1.93	ND	41.7	40-140			
1,2,4-Trichlorobenzene	1.13	0.39	mg/Kg dry	1.93	ND	58.2	40-140			
2,4,5-Trichlorophenol	1.22	0.39	mg/Kg dry	1.93	ND	63.1	30-130			
2,4,6-Trichlorophenol	1.22	0.39	mg/Kg dry	1.93	ND	63.3	30-130			
Surrogate: 2-Fluorophenol	4.98		mg/Kg dry	7.73		64.4	30-130			
Surrogate: Phenol-d6	5.04		mg/Kg dry	7.73		65.3	30-130			
Surrogate: Nitrobenzene-d5	2.35		mg/Kg dry	3.87		60.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.36		mg/Kg dry	3.87		61.0	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205866 - SW-846 3546										
Matrix Spike (B205866-MS1) Source: 18F0619-02 Prepared: 06/15/18 Analyzed: 06/18/18										
Surrogate: 2,4,6-Tribromophenol	5.34		mg/Kg dry	7.73		69.0	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg dry	3.87		71.8	30-130			
Matrix Spike Dup (B205866-MSD1) Source: 18F0619-02 Prepared: 06/15/18 Analyzed: 06/18/18										
Acenaphthene	1.20	0.19	mg/Kg dry	1.91	ND	63.1	40-140	5.36	30	
Acenaphthylene	1.26	0.19	mg/Kg dry	1.91	ND	66.0	40-140	4.03	30	
Acetophenone	1.16	0.39	mg/Kg dry	1.91	ND	60.6	40-140	4.00	30	
Aniline	1.19	0.39	mg/Kg dry	1.91	ND	62.5	40-140	1.63	30	V-04
Anthracene	1.38	0.19	mg/Kg dry	1.91	ND	72.5	40-140	5.41	30	
Benzo(a)anthracene	1.34	0.19	mg/Kg dry	1.91	ND	70.1	40-140	4.58	30	
Benzo(a)pyrene	1.39	0.19	mg/Kg dry	1.91	ND	73.1	40-140	6.43	30	
Benzo(b)fluoranthene	1.40	0.19	mg/Kg dry	1.91	ND	73.2	40-140	7.35	30	
Benzo(g,h,i)perylene	1.17	0.19	mg/Kg dry	1.91	ND	61.1	40-140	4.16	30	
Benzo(k)fluoranthene	1.43	0.19	mg/Kg dry	1.91	ND	75.2	40-140	8.45	30	
Bis(2-chloroethoxy)methane	1.30	0.39	mg/Kg dry	1.91	ND	68.0	40-140	5.71	30	
Bis(2-chloroethyl)ether	1.11	0.39	mg/Kg dry	1.91	ND	58.0	40-140	1.30	30	
Bis(2-chloroisopropyl)ether	1.24	0.39	mg/Kg dry	1.91	ND	65.2	40-140	5.79	30	
Bis(2-Ethylhexyl)phthalate	1.21	0.39	mg/Kg dry	1.91	ND	63.2	40-140	0.398	30	
4-Bromophenylphenylether	1.32	0.39	mg/Kg dry	1.91	ND	69.4	40-140	0.106	30	
Butylbenzylphthalate	1.22	0.39	mg/Kg dry	1.91	ND	63.8	40-140	1.07	30	
4-Chloroaniline	1.24	0.76	mg/Kg dry	1.91	ND	64.8	40-140	4.72	30	V-34
2-Chloronaphthalene	1.09	0.39	mg/Kg dry	1.91	ND	57.3	40-140	3.19	30	
2-Chlorophenol	1.13	0.39	mg/Kg dry	1.91	ND	59.5	30-130	2.48	30	
Chrysene	1.27	0.19	mg/Kg dry	1.91	ND	66.4	40-140	5.27	30	
Dibenz(a,h)anthracene	1.16	0.19	mg/Kg dry	1.91	ND	60.8	40-140	4.32	30	
Dibenzofuran	1.33	0.39	mg/Kg dry	1.91	ND	69.7	40-140	5.29	30	
Di-n-butylphthalate	1.28	0.39	mg/Kg dry	1.91	ND	67.4	40-140	4.61	30	
1,2-Dichlorobenzene	1.07	0.39	mg/Kg dry	1.91	ND	56.0	40-140	1.50	30	
1,3-Dichlorobenzene	1.03	0.39	mg/Kg dry	1.91	ND	54.1	40-140	1.64	30	
1,4-Dichlorobenzene	1.04	0.39	mg/Kg dry	1.91	ND	54.7	40-140	1.12	30	
3,3-Dichlorobenzidine	1.31	0.19	mg/Kg dry	1.98	ND	66.0	40-140	4.17	30	V-34
2,4-Dichlorophenol	1.22	0.39	mg/Kg dry	1.91	ND	64.0	30-130	2.11	30	
Diethylphthalate	1.21	0.39	mg/Kg dry	1.91	ND	63.7	40-140	5.97	30	
2,4-Dimethylphenol	1.30	0.39	mg/Kg dry	1.91	ND	68.1	30-130	1.59	30	
Dimethylphthalate	1.30	0.39	mg/Kg dry	1.91	ND	68.0	40-140	3.99	30	
2,4-Dinitrophenol	0.956	0.76	mg/Kg dry	1.91	ND	50.1	30-130	4.59	30	V-05
2,4-Dinitrotoluene	1.25	0.39	mg/Kg dry	1.91	ND	65.6	40-140	6.53	30	
2,6-Dinitrotoluene	1.31	0.39	mg/Kg dry	1.91	ND	68.8	40-140	6.76	30	
Di-n-octylphthalate	1.26	0.39	mg/Kg dry	1.91	ND	66.0	40-140	4.89	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.36	0.39	mg/Kg dry	1.91	ND	71.1	40-140	2.34	30	
Fluoranthene	1.43	0.19	mg/Kg dry	1.91	ND	75.0	40-140	12.3	30	
Fluorene	1.28	0.19	mg/Kg dry	1.91	ND	66.9	40-140	5.64	30	
Hexachlorobenzene	1.34	0.39	mg/Kg dry	1.91	ND	70.2	40-140	2.21	30	
Hexachlorobutadiene	1.12	0.39	mg/Kg dry	1.91	ND	58.7	40-140	0.0218	30	
Hexachloroethane	1.02	0.39	mg/Kg dry	1.91	ND	53.7	40-140	3.56	30	
Indeno(1,2,3-cd)pyrene	1.16	0.19	mg/Kg dry	1.91	ND	60.9	40-140	4.04	30	
Isophorone	1.25	0.39	mg/Kg dry	1.91	ND	65.3	40-140	5.19	30	
2-Methylnaphthalene	1.33	0.19	mg/Kg dry	1.91	ND	70.0	40-140	3.93	30	
2-Methylphenol	1.21	0.39	mg/Kg dry	1.91	ND	63.4	30-130	3.69	30	
3/4-Methylphenol	1.31	0.39	mg/Kg dry	1.91	ND	68.5	30-130	4.72	30	
Naphthalene	1.21	0.19	mg/Kg dry	1.91	ND	63.6	40-140	4.10	30	
Nitrobenzene	1.15	0.39	mg/Kg dry	1.91	ND	60.2	40-140	5.94	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205866 - SW-846 3546

Matrix Spike Dup (B205866-MSD1)

Source: 18F0619-02

Prepared: 06/15/18 Analyzed: 06/18/18

2-Nitrophenol	1.20	0.39	mg/Kg dry	1.91	ND	63.1	30-130	3.02	30	
4-Nitrophenol	1.45	0.76	mg/Kg dry	1.91	ND	76.1	30-130	29.2	30	
Pentachlorophenol	1.03	0.39	mg/Kg dry	1.91	ND	54.0	30-130	3.14	30	
Phenanthrene	1.39	0.19	mg/Kg dry	1.91	ND	72.8	40-140	5.43	30	
Phenol	1.23	0.39	mg/Kg dry	1.91	ND	64.5	30-130	6.13	30	
Pyrene	1.30	0.19	mg/Kg dry	1.91	ND	67.9	40-140	1.09	30	
Pyridine	0.824	0.39	mg/Kg dry	1.91	ND	43.2	40-140	2.16	30	
1,2,4-Trichlorobenzene	1.15	0.39	mg/Kg dry	1.91	ND	60.4	40-140	2.32	30	
2,4,5-Trichlorophenol	1.29	0.39	mg/Kg dry	1.91	ND	67.4	30-130	5.21	30	
2,4,6-Trichlorophenol	1.29	0.39	mg/Kg dry	1.91	ND	67.6	30-130	5.34	30	
Surrogate: 2-Fluorophenol	5.17		mg/Kg dry	7.63		67.7	30-130			
Surrogate: Phenol-d6	5.39		mg/Kg dry	7.63		70.6	30-130			
Surrogate: Nitrobenzene-d5	2.48		mg/Kg dry	3.81		65.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.43		mg/Kg dry	3.81		63.8	30-130			
Surrogate: 2,4,6-Tribromophenol	5.70		mg/Kg dry	7.63		74.8	30-130			
Surrogate: p-Terphenyl-d14	2.73		mg/Kg dry	3.81		71.6	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205781 - SW-846 3546

Blank (B205781-BLK1)

Prepared: 06/14/18 Analyzed: 06/20/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.137		mg/Kg wet	0.200		68.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.4	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205781 - SW-846 3546										
LCS (B205781-BS1)										
					Prepared: 06/14/18 Analyzed: 06/20/18					
alpha-Chlordane	0.086	0.0050	mg/Kg wet	0.100		86.3	40-140			
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.5	40-140			
gamma-Chlordane	0.087	0.0050	mg/Kg wet	0.100		86.9	40-140			
gamma-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.5	40-140			
Alachlor	0.11	0.020	mg/Kg wet	0.100		108	40-140			
Alachlor [2C]	0.10	0.020	mg/Kg wet	0.100		104	40-140			
Aldrin	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140			
Aldrin [2C]	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
alpha-BHC	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140			
alpha-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.2	40-140			
beta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
beta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		82.5	40-140			
delta-BHC	0.063	0.0050	mg/Kg wet	0.100		62.6	40-140			
delta-BHC [2C]	0.056	0.0050	mg/Kg wet	0.100		56.0	40-140			
gamma-BHC (Lindane)	0.084	0.0020	mg/Kg wet	0.100		83.7	40-140			
gamma-BHC (Lindane) [2C]	0.073	0.0020	mg/Kg wet	0.100		73.1	40-140			
4,4'-DDD	0.095	0.0040	mg/Kg wet	0.100		94.7	40-140			
4,4'-DDD [2C]	0.095	0.0040	mg/Kg wet	0.100		95.3	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		89.5	40-140			
4,4'-DDE [2C]	0.092	0.0040	mg/Kg wet	0.100		91.7	40-140			
4,4'-DDT	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140			
4,4'-DDT [2C]	0.090	0.0040	mg/Kg wet	0.100		90.2	40-140			
Dieldrin	0.093	0.0040	mg/Kg wet	0.100		92.9	40-140			
Dieldrin [2C]	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140			
Endosulfan I	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140			
Endosulfan I [2C]	0.089	0.0050	mg/Kg wet	0.100		88.9	40-140			
Endosulfan II	0.092	0.0080	mg/Kg wet	0.100		92.5	40-140			
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		93.1	40-140			
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		88.8	40-140			
Endosulfan Sulfate [2C]	0.091	0.0080	mg/Kg wet	0.100		90.8	40-140			
Endrin	0.089	0.0080	mg/Kg wet	0.100		88.7	40-140			
Endrin [2C]	0.087	0.0080	mg/Kg wet	0.100		86.9	40-140			
Endrin Aldehyde	0.092	0.0080	mg/Kg wet	0.100		92.1	40-140			
Endrin Aldehyde [2C]	0.088	0.0080	mg/Kg wet	0.100		88.0	40-140			
Endrin Ketone	0.093	0.0080	mg/Kg wet	0.100		93.3	40-140			
Endrin Ketone [2C]	0.091	0.0080	mg/Kg wet	0.100		91.2	40-140			
Heptachlor	0.081	0.0050	mg/Kg wet	0.100		80.6	40-140			
Heptachlor [2C]	0.082	0.0050	mg/Kg wet	0.100		82.2	40-140			
Heptachlor Epoxide	0.088	0.0050	mg/Kg wet	0.100		88.4	40-140			
Heptachlor Epoxide [2C]	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140			
Hexachlorobenzene	0.090	0.0060	mg/Kg wet	0.100		89.6	40-140			
Hexachlorobenzene [2C]	0.088	0.0060	mg/Kg wet	0.100		88.0	40-140			
Methoxychlor	0.094	0.050	mg/Kg wet	0.100		94.2	40-140			
Methoxychlor [2C]	0.092	0.050	mg/Kg wet	0.100		91.6	40-140			
Surrogate: Decachlorobiphenyl	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.6	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205781 - SW-846 3546										
LCS Dup (B205781-BSD1)										
					Prepared: 06/14/18 Analyzed: 06/20/18					
alpha-Chlordane	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140	17.5	30	
alpha-Chlordane [2C]	0.075	0.0050	mg/Kg wet	0.100		75.0	40-140	13.1	30	
gamma-Chlordane	0.073	0.0050	mg/Kg wet	0.100		73.0	40-140	17.5	30	
gamma-Chlordane [2C]	0.073	0.0050	mg/Kg wet	0.100		72.9	40-140	13.6	30	
Alachlor	0.092	0.020	mg/Kg wet	0.100		91.7	40-140	16.8	30	
Alachlor [2C]	0.090	0.020	mg/Kg wet	0.100		90.1	40-140	13.8	30	
Aldrin	0.075	0.0050	mg/Kg wet	0.100		75.2	40-140	13.3	30	
Aldrin [2C]	0.076	0.0050	mg/Kg wet	0.100		75.6	40-140	13.6	30	
alpha-BHC	0.072	0.0050	mg/Kg wet	0.100		72.2	40-140	10.7	30	
alpha-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.7	40-140	12.8	30	
beta-BHC	0.073	0.0050	mg/Kg wet	0.100		72.7	40-140	13.9	30	
beta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.9	40-140	15.1	30	
delta-BHC	0.057	0.0050	mg/Kg wet	0.100		57.0	40-140	9.38	30	
delta-BHC [2C]	0.051	0.0050	mg/Kg wet	0.100		51.1	40-140	9.24	30	
gamma-BHC (Lindane)	0.075	0.0020	mg/Kg wet	0.100		74.6	40-140	11.5	30	
gamma-BHC (Lindane) [2C]	0.064	0.0020	mg/Kg wet	0.100		64.1	40-140	13.1	30	
4,4'-DDD	0.081	0.0040	mg/Kg wet	0.100		80.8	40-140	15.8	30	
4,4'-DDD [2C]	0.082	0.0040	mg/Kg wet	0.100		82.3	40-140	14.6	30	
4,4'-DDE	0.079	0.0040	mg/Kg wet	0.100		78.5	40-140	13.1	30	
4,4'-DDE [2C]	0.079	0.0040	mg/Kg wet	0.100		79.3	40-140	14.4	30	
4,4'-DDT	0.080	0.0040	mg/Kg wet	0.100		80.2	40-140	15.6	30	
4,4'-DDT [2C]	0.078	0.0040	mg/Kg wet	0.100		77.8	40-140	14.9	30	
Dieldrin	0.080	0.0040	mg/Kg wet	0.100		80.2	40-140	14.7	30	
Dieldrin [2C]	0.081	0.0040	mg/Kg wet	0.100		81.3	40-140	14.6	30	
Endosulfan I	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	15.9	30	
Endosulfan I [2C]	0.078	0.0050	mg/Kg wet	0.100		77.7	40-140	13.5	30	
Endosulfan II	0.078	0.0080	mg/Kg wet	0.100		77.8	40-140	17.2	30	
Endosulfan II [2C]	0.081	0.0080	mg/Kg wet	0.100		81.0	40-140	13.9	30	
Endosulfan Sulfate	0.077	0.0080	mg/Kg wet	0.100		76.7	40-140	14.6	30	
Endosulfan Sulfate [2C]	0.079	0.0080	mg/Kg wet	0.100		79.3	40-140	13.6	30	
Endrin	0.077	0.0080	mg/Kg wet	0.100		76.8	40-140	14.4	30	
Endrin [2C]	0.075	0.0080	mg/Kg wet	0.100		74.6	40-140	15.3	30	
Endrin Aldehyde	0.079	0.0080	mg/Kg wet	0.100		79.1	40-140	15.1	30	
Endrin Aldehyde [2C]	0.075	0.0080	mg/Kg wet	0.100		74.9	40-140	16.1	30	
Endrin Ketone	0.082	0.0080	mg/Kg wet	0.100		81.8	40-140	13.1	30	
Endrin Ketone [2C]	0.080	0.0080	mg/Kg wet	0.100		80.2	40-140	12.9	30	
Heptachlor	0.071	0.0050	mg/Kg wet	0.100		70.7	40-140	13.1	30	
Heptachlor [2C]	0.073	0.0050	mg/Kg wet	0.100		72.7	40-140	12.2	30	
Heptachlor Epoxide	0.076	0.0050	mg/Kg wet	0.100		76.4	40-140	14.6	30	
Heptachlor Epoxide [2C]	0.073	0.0050	mg/Kg wet	0.100		72.9	40-140	12.8	30	
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		79.9	40-140	11.5	30	
Hexachlorobenzene [2C]	0.077	0.0060	mg/Kg wet	0.100		76.8	40-140	13.5	30	
Methoxychlor	0.078	0.050	mg/Kg wet	0.100		78.1	40-140	18.6	30	
Methoxychlor [2C]	0.080	0.050	mg/Kg wet	0.100		80.4	40-140	13.0	30	
Surrogate: Decachlorobiphenyl	0.138		mg/Kg wet	0.200		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.149		mg/Kg wet	0.200		74.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.137		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.144		mg/Kg wet	0.200		71.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205782 - SW-846 3546										
Blank (B205782-BLK1)										
Prepared: 06/14/18 Analyzed: 06/19/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.164		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg wet	0.200		80.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
LCS (B205782-BS1)										
Prepared: 06/14/18 Analyzed: 06/19/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.3	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5	40-140			
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.200		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		101	30-150			
LCS Dup (B205782-BSD1)										
Prepared: 06/14/18 Analyzed: 06/19/18										
Aroclor-1016	0.21	0.020	mg/Kg wet	0.200		105	40-140	3.34	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.4	40-140	3.30	30	
Aroclor-1260	0.21	0.020	mg/Kg wet	0.200		105	40-140	3.19	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		94.8	40-140	3.64	30	
Surrogate: Decachlorobiphenyl	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.207		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.207		mg/Kg wet	0.200		103	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205568 - SW-846 8151										
Blank (B205568-BLK1)										
Prepared: 06/13/18 Analyzed: 06/14/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							R-05
Dinoseb [2C]	ND	12	µg/kg wet							R-05
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	70.4		µg/kg wet	95.2		73.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	79.8		µg/kg wet	95.2		83.8	30-150			
LCS (B205568-BS1)										
Prepared: 06/13/18 Analyzed: 06/14/18										
2,4-D	105	25	µg/kg wet	125		83.7	40-140			
2,4-D [2C]	114	25	µg/kg wet	125		91.2	40-140			
2,4-DB	101	25	µg/kg wet	125		80.7	40-140			
2,4-DB [2C]	105	25	µg/kg wet	125		84.2	40-140			
2,4,5-TP (Silvex)	10.7	2.5	µg/kg wet	12.5		85.8	40-140			
2,4,5-TP (Silvex) [2C]	11.1	2.5	µg/kg wet	12.5		89.0	40-140			
2,4,5-T	10.4	2.5	µg/kg wet	12.5		83.5	40-140			
2,4,5-T [2C]	10.6	2.5	µg/kg wet	12.5		84.7	40-140			
Dalapon	185	62	µg/kg wet	312		59.3	40-140			
Dalapon [2C]	200	62	µg/kg wet	312		64.1	40-140			
Dicamba	10.7	2.5	µg/kg wet	12.5		85.4	40-140			
Dicamba [2C]	11.5	2.5	µg/kg wet	12.5		92.2	40-140			
Dichloroprop	107	25	µg/kg wet	125		85.7	40-140			
Dichloroprop [2C]	120	25	µg/kg wet	125		95.7	40-140			
Dinoseb	14.6	12	µg/kg wet	62.5		23.3	0-42.4			R-05
Dinoseb [2C]	16.8	12	µg/kg wet	62.5		26.9	0-41.1			R-05
MCPA	9190	2500	µg/kg wet	12500		73.6	40-140			
MCPA [2C]	9930	2500	µg/kg wet	12500		79.4	40-140			
MCPP	11100	2500	µg/kg wet	12500		89.0	40-140			
MCPP [2C]	10600	2500	µg/kg wet	12500		85.1	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	82.1		µg/kg wet	100		82.1	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	92.0		µg/kg wet	100		92.0	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205568 - SW-846 8151

LCS Dup (B205568-BSD1)

Prepared: 06/13/18 Analyzed: 06/14/18

2,4-D	110	25	µg/kg wet	125		87.9	40-140	4.85	30	
2,4-D [2C]	119	25	µg/kg wet	125		95.1	40-140	4.17	30	
2,4-DB	106	25	µg/kg wet	125		85.0	40-140	5.15	30	
2,4-DB [2C]	104	25	µg/kg wet	125		82.9	40-140	1.52	30	
2,4,5-TP (Silvex)	11.1	2.5	µg/kg wet	12.5		89.0	40-140	3.59	30	
2,4,5-TP (Silvex) [2C]	11.3	2.5	µg/kg wet	12.5		90.5	40-140	1.74	30	
2,4,5-T	10.8	2.5	µg/kg wet	12.5		86.4	40-140	3.46	30	
2,4,5-T [2C]	10.9	2.5	µg/kg wet	12.5		87.5	40-140	3.18	30	
Dalapon	179	62	µg/kg wet	312		57.4	40-140	3.15	30	
Dalapon [2C]	191	62	µg/kg wet	312		61.2	40-140	4.69	30	
Dicamba	11.1	2.5	µg/kg wet	12.5		89.1	40-140	4.30	30	
Dicamba [2C]	12.3	2.5	µg/kg wet	12.5		98.7	40-140	6.77	30	
Dichloroprop	112	25	µg/kg wet	125		89.5	40-140	4.37	30	
Dichloroprop [2C]	127	25	µg/kg wet	125		101	40-140	5.67	30	
Dinoseb	24.2	12	µg/kg wet	62.5		38.7	0-42.4	49.5 *	30	R-05, V-06
Dinoseb [2C]	24.7	12	µg/kg wet	62.5		39.6	0-41.1	38.1 *	30	R-05
MCPA	9610	2500	µg/kg wet	12500		76.8	40-140	4.37	30	
MCPA [2C]	10400	2500	µg/kg wet	12500		83.0	40-140	4.41	30	
MCPP	11600	2500	µg/kg wet	12500		93.1	40-140	4.57	30	
MCPP [2C]	11300	2500	µg/kg wet	12500		90.8	40-140	6.43	30	
Surrogate: 2,4-Dichlorophenylacetic acid	86.7		µg/kg wet	100		86.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	99.1		µg/kg wet	100		99.1	30-150			

Matrix Spike (B205568-MS1)

Source: 18F0619-09

Prepared: 06/13/18 Analyzed: 06/21/18

2,4-D	140	28	µg/kg dry	142	ND	98.6	30-150			
2,4-D [2C]	163	28	µg/kg dry	142	ND	115	30-150			
2,4-DB	144	28	µg/kg dry	142	ND	101	30-150			
2,4-DB [2C]	164	28	µg/kg dry	142	ND	116	30-150			
2,4,5-TP (Silvex)	13.1	2.8	µg/kg dry	14.2	ND	92.8	30-150			
2,4,5-TP (Silvex) [2C]	14.1	2.8	µg/kg dry	14.2	ND	99.7	30-150			
2,4,5-T	13.2	2.8	µg/kg dry	14.2	ND	93.4	30-150			
2,4,5-T [2C]	15.1	2.8	µg/kg dry	14.2	ND	107	30-150			
Dalapon	234	71	µg/kg dry	354	ND	66.1	30-150			
Dalapon [2C]	242	71	µg/kg dry	354	ND	68.5	30-150			
Dicamba	13.0	2.8	µg/kg dry	14.2	ND	92.2	30-150			
Dicamba [2C]	13.4	2.8	µg/kg dry	14.2	ND	94.8	30-150			
Dichloroprop	140	28	µg/kg dry	142	ND	98.9	30-150			
Dichloroprop [2C]	151	28	µg/kg dry	142	ND	106	30-150			
Dinoseb	21.5	14	µg/kg dry	70.8	ND	30.4	10-150			R-05
Dinoseb [2C]	20.9	14	µg/kg dry	70.8	ND	29.5	10-150			R-05
MCPA	12600	2800	µg/kg dry	14200	ND	88.9	30-150			
MCPA [2C]	12400	2800	µg/kg dry	14200	ND	87.5	30-150			
MCPP	16600	2800	µg/kg dry	14200	ND	117	30-150			
MCPP [2C]	12600	2800	µg/kg dry	14200	ND	88.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	103		µg/kg dry	113		90.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	124		µg/kg dry	113		109	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205568 - SW-846 8151										
Matrix Spike Dup (B205568-MSD1)										
		Source: 18F0619-09			Prepared: 06/13/18 Analyzed: 06/21/18					
2,4-D	133	28	µg/kg dry	142	ND	93.7	30-150	5.15	30	
2,4-D [2C]	151	28	µg/kg dry	142	ND	107	30-150	7.56	30	
2,4-DB	147	28	µg/kg dry	142	ND	104	30-150	2.43	30	
2,4-DB [2C]	152	28	µg/kg dry	142	ND	108	30-150	7.46	30	
2,4,5-TP (Silvex)	12.8	2.8	µg/kg dry	14.2	ND	90.4	30-150	2.63	30	
2,4,5-TP (Silvex) [2C]	13.1	2.8	µg/kg dry	14.2	ND	92.8	30-150	7.17	30	
2,4,5-T	13.0	2.8	µg/kg dry	14.2	ND	91.9	30-150	1.59	30	
2,4,5-T [2C]	13.7	2.8	µg/kg dry	14.2	ND	96.6	30-150	9.97	30	
Dalapon	229	71	µg/kg dry	354	ND	64.6	30-150	2.31	30	
Dalapon [2C]	237	71	µg/kg dry	354	ND	66.8	30-150	2.46	30	
Dicamba	12.3	2.8	µg/kg dry	14.2	ND	86.9	30-150	5.90	30	
Dicamba [2C]	12.5	2.8	µg/kg dry	14.2	ND	88.1	30-150	7.28	30	
Dichloroprop	133	28	µg/kg dry	142	ND	94.0	30-150	5.13	30	
Dichloroprop [2C]	140	28	µg/kg dry	142	ND	98.7	30-150	7.51	30	
Dinoseb	25.3	14	µg/kg dry	70.8	ND	35.7	10-150	16.1	30	
Dinoseb [2C]	22.0	14	µg/kg dry	70.8	ND	31.1	10-150	5.50	30	
MCPA	11900	2800	µg/kg dry	14200	ND	84.1	30-150	5.49	30	
MCPA [2C]	11400	2800	µg/kg dry	14200	ND	80.6	30-150	8.20	30	
MCPP	15600	2800	µg/kg dry	14200	ND	110	30-150	6.12	30	
MCPP [2C]	11500	2800	µg/kg dry	14200	ND	81.4	30-150	8.50	30	
Surrogate: 2,4-Dichlorophenylacetic acid	101		µg/kg dry	113		89.1	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	119		µg/kg dry	113		105	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205864 - SW-846 3546										
Blank (B205864-BLK1)					Prepared: 06/15/18 Analyzed: 06/18/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.2	40-140			
LCS (B205864-BS1)					Prepared: 06/15/18 Analyzed: 06/18/18					
TPH (C9-C36)	22.9	8.3	mg/Kg wet	33.3		68.7	40-140			
Surrogate: 2-Fluorobiphenyl	2.78		mg/Kg wet	3.33		83.3	40-140			
LCS Dup (B205864-BSD1)					Prepared: 06/15/18 Analyzed: 06/18/18					
TPH (C9-C36)	23.0	8.3	mg/Kg wet	33.3		69.1	40-140	0.545	30	
Surrogate: 2-Fluorobiphenyl	2.85		mg/Kg wet	3.33		85.5	40-140			
Matrix Spike (B205864-MS1)					Source: 18F0619-01 Prepared: 06/15/18 Analyzed: 06/18/18					
TPH (C9-C36)	146	100	mg/Kg dry	40.5	126	50.7	40-140			
Surrogate: 2-Fluorobiphenyl	3.45		mg/Kg dry	4.05		85.2	40-140			
Matrix Spike Dup (B205864-MSD1)					Source: 18F0619-01 Prepared: 06/15/18 Analyzed: 06/18/18					
TPH (C9-C36)	171	100	mg/Kg dry	40.4	126	112	40-140	15.6	30	
Surrogate: 2-Fluorobiphenyl	3.53		mg/Kg dry	4.04		87.4	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205989 - SW-846 3050B

Blank (B205989-BLK1)

Prepared: 06/18/18 Analyzed: 06/19/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B205989-BS1)

Prepared: 06/18/18 Analyzed: 06/19/18

Antimony	56.0	5.0	mg/Kg wet	75.5		74.2	3.8-196			
Arsenic	142	5.0	mg/Kg wet	161		88.4	83.2-116.8			
Barium	266	5.0	mg/Kg wet	260		102	82.7-117.3			
Beryllium	95.8	0.50	mg/Kg wet	97.6		98.1	83.4-116.8			
Cadmium	197	0.50	mg/Kg wet	211		93.5	83.4-116.6			
Chromium	129	0.99	mg/Kg wet	136		94.9	82.4-117.6			
Lead	94.9	1.5	mg/Kg wet	111		85.5	83-117.1			
Nickel	88.2	0.99	mg/Kg wet	91.9		96.0	82.9-117.5			
Selenium	164	9.9	mg/Kg wet	191		85.6	79.6-120.9			
Silver	39.3	0.99	mg/Kg wet	43.3		90.8	79.9-119.9			
Thallium	146	5.0	mg/Kg wet	156		93.6	81.4-119.2			
Vanadium	48.9	2.0	mg/Kg wet	56.7		86.2	79-121.2			
Zinc	180	2.0	mg/Kg wet	199		90.2	81.4-119.1			

LCS Dup (B205989-BSD1)

Prepared: 06/18/18 Analyzed: 06/19/18

Antimony	56.1	5.0	mg/Kg wet	75.5		74.3	3.8-196	0.199	30	
Arsenic	147	5.0	mg/Kg wet	161		91.1	83.2-116.8	2.97	30	
Barium	256	5.0	mg/Kg wet	260		98.6	82.7-117.3	3.74	30	
Beryllium	97.2	0.50	mg/Kg wet	97.6		99.6	83.4-116.8	1.51	30	
Cadmium	201	0.50	mg/Kg wet	211		95.2	83.4-116.6	1.86	30	
Chromium	132	0.99	mg/Kg wet	136		96.9	82.4-117.6	2.16	30	
Lead	99.1	1.5	mg/Kg wet	111		89.3	83-117.1	4.34	30	
Nickel	89.6	0.99	mg/Kg wet	91.9		97.5	82.9-117.5	1.64	30	
Selenium	169	9.9	mg/Kg wet	191		88.4	79.6-120.9	3.17	30	
Silver	40.5	0.99	mg/Kg wet	43.3		93.5	79.9-119.9	2.87	30	
Thallium	149	5.0	mg/Kg wet	156		95.3	81.4-119.2	1.79	30	
Vanadium	50.8	2.0	mg/Kg wet	56.7		89.5	79-121.2	3.81	30	
Zinc	180	2.0	mg/Kg wet	199		90.4	81.4-119.1	0.159	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205989 - SW-846 3050B

Duplicate (B205989-DUP1)

Source: 18F0619-09

Prepared: 06/18/18 Analyzed: 06/19/18

Antimony	ND	1.9	mg/Kg dry		ND			NC	35	
Arsenic	5.27	1.9	mg/Kg dry		7.05			28.8	35	
Barium	22.6	1.9	mg/Kg dry		23.1			2.28	35	
Beryllium	ND	0.19	mg/Kg dry		ND			NC	35	
Cadmium	ND	0.19	mg/Kg dry		ND			NC	35	
Chromium	9.77	0.38	mg/Kg dry		8.77			10.8	35	
Lead	3.43	0.56	mg/Kg dry		3.54			2.97	35	M-10
Nickel	6.39	0.38	mg/Kg dry		5.75			10.5	35	
Selenium	ND	3.8	mg/Kg dry		ND			NC	35	
Silver	ND	0.38	mg/Kg dry		ND			NC	35	
Thallium	ND	1.9	mg/Kg dry		ND			NC	35	
Vanadium	9.26	0.75	mg/Kg dry		9.30			0.427	35	
Zinc	10.9	0.75	mg/Kg dry		10.7			1.99	35	

MRL Check (B205989-MRL1)

Prepared: 06/18/18 Analyzed: 06/19/18

Lead	0.630	0.50	mg/Kg wet	0.500		126	*	80-120		M-10
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Matrix Spike (B205989-MS1)

Source: 18F0619-09

Prepared: 06/18/18 Analyzed: 06/19/18

Antimony	9.71	1.9	mg/Kg dry	18.8	ND	51.7	*	75-125		MS-07
Arsenic	23.0	1.9	mg/Kg dry	18.8	7.05	84.9		75-125		
Barium	42.4	1.9	mg/Kg dry	18.8	23.1	103		75-125		
Beryllium	19.3	0.19	mg/Kg dry	18.8	0.157	102		75-125		
Cadmium	19.6	0.19	mg/Kg dry	18.8	0.167	103		75-125		
Chromium	27.5	0.38	mg/Kg dry	18.8	8.77	99.9		75-125		
Lead	20.9	0.56	mg/Kg dry	18.8	3.54	92.6		75-125		
Nickel	24.2	0.38	mg/Kg dry	18.8	5.75	98.1		75-125		
Selenium	15.7	3.8	mg/Kg dry	18.8	ND	83.7		75-125		
Silver	18.5	0.38	mg/Kg dry	18.8	ND	98.6		75-125		
Thallium	19.1	1.9	mg/Kg dry	18.8	ND	102		75-125		
Vanadium	27.8	0.75	mg/Kg dry	18.8	9.30	98.7		75-125		
Zinc	48.1	0.75	mg/Kg dry	37.6	10.7	99.6		75-125		

Batch B205996 - SW-846 7471

Blank (B205996-BLK1)

Prepared & Analyzed: 06/19/18

Mercury	ND	0.025	mg/Kg wet							
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LCS (B205996-BS1)

Prepared & Analyzed: 06/19/18

Mercury	11.0	1.9	mg/Kg wet	9.36		117		73.7-126.3		
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LCS Dup (B205996-BSD1)

Prepared & Analyzed: 06/19/18

Mercury	11.7	2.0	mg/Kg wet	9.36		125		73.7-126.3	6.69	30
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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205996 - SW-846 7471										
Duplicate (B205996-DUP1)		Source: 18F0619-09			Prepared & Analyzed: 06/19/18					
Mercury	ND	0.029	mg/Kg dry		ND			NC	35	
Matrix Spike (B205996-MS1)		Source: 18F0619-09			Prepared & Analyzed: 06/19/18					
Mercury	0.200	0.029	mg/Kg dry	0.193	0.00439	101	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B205714 - % Solids										
Duplicate (B205714-DUP4)		Source: 18F0619-10			Prepared: 06/14/18 Analyzed: 06/15/18					
% Solids	96.7		% Wt		96.7			0.000284	20	
Batch B205790 - SW-846 9045C										
LCS (B205790-BS1)		Prepared & Analyzed: 06/14/18								
pH	6.05		pH Units	6.00		101	90-110			
LCS (B205790-BS2)		Prepared & Analyzed: 06/14/18								
pH	6.05		pH Units	6.00		101	90-110			
Duplicate (B205790-DUP1)		Source: 18F0619-02			Prepared & Analyzed: 06/14/18					
pH	5.6		pH Units		5.7			3.02	5	
Batch B205963 - SM21-22 2510B Modified										
Blank (B205963-BLK1)		Prepared & Analyzed: 06/18/18								
Specific conductance	ND	2.0	µmhos/cm							
LCS (B205963-BS1)		Prepared & Analyzed: 06/18/18								
Specific conductance	200		µmhos/cm	192		104	90-110			
Duplicate (B205963-DUP2)		Source: 18F0619-03			Prepared & Analyzed: 06/18/18					
Specific conductance	28	2.0	µmhos/cm		32			14.4	21	
Batch B205965 - SW-846 9014										
Blank (B205965-BLK1)		Prepared: 06/18/18 Analyzed: 06/19/18								
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B205965-BS1)		Prepared: 06/18/18 Analyzed: 06/19/18								
Reactive Cyanide	9.5	0.40	mg/Kg	10.0		95.4	83.6-111			
Batch B205968 - SW-846 9030A										
Blank (B205968-BLK1)		Prepared: 06/18/18 Analyzed: 06/19/18								
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B205968-BS1)		Prepared: 06/18/18 Analyzed: 06/19/18								
Reactive Sulfide	16	2.0	mg/Kg	14.8		105	54.9-121			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206096 - SW-846 9014										
Blank (B206096-BLK1)										
					Prepared: 06/19/18 Analyzed: 06/20/18					
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B206096-BS1)										
					Prepared: 06/19/18 Analyzed: 06/20/18					
Reactive Cyanide	11	0.40	mg/Kg	10.0		106	83.6-111			
Batch B206097 - SW-846 9030A										
Blank (B206097-BLK1)										
					Prepared: 06/19/18 Analyzed: 06/20/18					
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B206097-BS1)										
					Prepared: 06/19/18 Analyzed: 06/20/18					
Reactive Sulfide	13	2.0	mg/Kg	14.8		89.2	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S024522-PEM1 **Analyzed:** 06/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.96
Endrin [1] 1.84

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.46
Endrin [2] 1.41

BREAKDOWN REPORT

Lab Sample ID: S024522-PEM2 **Analyzed:** 06/19/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.03
Endrin [1] 1.92

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.45
Endrin [2] 1.75

BREAKDOWN REPORT

Lab Sample ID: S024522-PEM3 **Analyzed:** 06/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.10
Endrin [1] 1.95

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BREAKDOWN REPORT

Lab Sample ID: S024522-PEM3 **Analyzed:** 06/20/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.47
Endrin [2] 1.83

BREAKDOWN REPORT

Lab Sample ID: S024522-PEM4 **Analyzed:** 06/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.41
Endrin [1] 3.22

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.68
Endrin [2] 3.04

BREAKDOWN REPORT

Lab Sample ID: S024522-PEM5 **Analyzed:** 06/20/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 2.07
Endrin [1] 1.50

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.47
Endrin [2] 1.44

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SB1

SW-846 8081B

Lab Sample ID: 18F0619-06 Date(s) Analyzed: 06/20/2018 06/20/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	6.864	6.837	6.897	0.0080	
	2	6.922	6.895	6.955	0.0078	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B205568-BS1 Date(s) Analyzed: 06/14/2018 06/14/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.803	0.000	0.000	10.4	
	2	16.479	0.000	0.000	10.6	5.8
2,4,5-TP (Silvex)	1	16.325	0.000	0.000	10.7	
	2	15.621	0.000	0.000	11.1	0.9
2,4-D	1	14.423	0.000	0.000	105	
	2	13.850	0.000	0.000	114	3.6
2,4-DB	1	17.271	0.000	0.000	101	
	2	17.072	0.000	0.000	105	4.9
Dalapon	1	4.854	0.000	0.000	185	
	2	4.322	0.000	0.000	200	5.1
Dicamba	1	12.227	0.000	0.000	10.7	
	2	11.598	0.000	0.000	11.5	4.4
Dichloroprop	1	13.899	0.000	0.000	107	
	2	13.158	0.000	0.000	120	8.7
Dinoseb	1	17.852	0.000	0.000	14.6	
	2	17.281	0.000	0.000	16.8	11.3
MCPA	1	13.073	0.000	0.000	9190	
	2	12.448	0.000	0.000	9930	7.6
MCPD	1	12.730	0.000	0.000	11100	
	2	11.940	0.000	0.000	10600	3.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS Dup

Lab Sample ID: B205568-BSD1 Date(s) Analyzed: 06/14/2018 06/14/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.800	0.000	0.000	10.8	
	2	16.479	0.000	0.000	10.9	0.9
2,4,5-TP (Silvex)	1	16.325	0.000	0.000	11.1	
	2	15.621	0.000	0.000	11.3	2.7
2,4-D	1	14.423	0.000	0.000	110	
	2	13.849	0.000	0.000	119	7.9
2,4-DB	1	17.265	0.000	0.000	106	
	2	17.067	0.000	0.000	104	5.6
Dalapon	1	4.853	0.000	0.000	179	
	2	4.320	0.000	0.000	191	5.9
Dicamba	1	12.227	0.000	0.000	11.1	
	2	11.598	0.000	0.000	12.3	11.2
Dichloroprop	1	13.899	0.000	0.000	112	
	2	13.158	0.000	0.000	127	14.3
Dinoseb	1	17.845	0.000	0.000	24.2	
	2	17.275	0.000	0.000	24.7	2.9
MCPA	1	13.074	0.000	0.000	9610	
	2	12.448	0.000	0.000	10400	8.0
MCPD	1	12.730	0.000	0.000	11600	
	2	11.939	0.000	0.000	11300	6.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

Matrix Spike

Lab Sample ID: B205568-MS1 Date(s) Analyzed: 06/21/2018 06/21/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.394	0.000	0.000	13.2	
	2	15.955	0.000	0.000	15.1	14.9
2,4,5-TP (Silvex)	1	15.769	0.000	0.000	13.1	
	2	15.107	0.000	0.000	14.1	8.1
2,4-D	1	13.901	0.000	0.000	140	
	2	13.366	0.000	0.000	163	15.2
2,4-DB	1	17.069	0.000	0.000	144	
	2	16.854	0.000	0.000	164	15.8
Dalapon	1	4.656	0.000	0.000	234	
	2	4.136	0.000	0.000	242	5.1
Dicamba	1	11.752	0.000	0.000	13.0	
	2	11.165	0.000	0.000	13.4	3.0
Dichloroprop	1	13.387	0.000	0.000	140	
	2	12.689	0.000	0.000	151	7.6
Dinoseb	1	17.692	0.000	0.000	21.5	
	2	17.097	0.000	0.000	20.9	5.1
MCPA	1	12.589	0.000	0.000	12600	
	2	12.003	0.000	0.000	12400	4.7
MCPD	1	12.249	0.000	0.000	16600	
	2	11.506	0.000	0.000	12600	29.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B205568-MSD1 Date(s) Analyzed: 06/21/2018 06/21/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.394	0.000	0.000	13.0	
	2	15.955	0.000	0.000	13.7	5.2
2,4,5-TP (Silvex)	1	15.769	0.000	0.000	12.8	
	2	15.106	0.000	0.000	13.1	0.8
2,4-D	1	13.900	0.000	0.000	133	
	2	13.367	0.000	0.000	151	14.9
2,4-DB	1	17.067	0.000	0.000	147	
	2	16.853	0.000	0.000	152	1.3
Dalapon	1	4.655	0.000	0.000	229	
	2	4.135	0.000	0.000	237	3.0
Dicamba	1	11.752	0.000	0.000	12.3	
	2	11.164	0.000	0.000	12.5	4.1
Dichloroprop	1	13.386	0.000	0.000	133	
	2	12.689	0.000	0.000	140	7.4
Dinoseb	1	17.687	0.000	0.000	25.3	
	2	17.095	0.000	0.000	22.0	12.8
MCPA	1	12.586	0.000	0.000	11900	
	2	12.002	0.000	0.000	11400	5.1
MCPD	1	12.248	0.000	0.000	15600	
	2	11.505	0.000	0.000	11500	32.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B205781-BS1 Date(s) Analyzed: 06/20/2018 06/20/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.667	6.637	6.697	0.095	
	2	6.702	6.671	6.731	0.095	0.0
4,4'-DDE	1	6.260	6.230	6.290	0.089	
	2	6.300	6.270	6.330	0.092	2.2
4,4'-DDT	1	6.868	6.837	6.897	0.094	
	2	6.925	6.895	6.955	0.090	4.4
Alachlor	1	5.751	5.720	5.780	0.11	
	2	5.569	5.539	5.599	0.10	9.5
Aldrin	1	5.650	5.620	5.680	0.086	
	2	5.603	5.572	5.632	0.087	1.2
alpha-BHC	1	5.039	5.009	5.069	0.080	
	2	5.005	4.975	5.035	0.079	1.3
alpha-Chlordane	1	6.195	6.165	6.225	0.086	
	2	6.169	6.139	6.199	0.085	1.2
beta-BHC	1	5.259	5.229	5.289	0.084	
	2	5.238	5.208	5.268	0.083	1.2
delta-BHC	1	5.355	5.325	5.385	0.063	
	2	5.394	5.365	5.425	0.056	11.8
Dieldrin	1	6.442	6.412	6.472	0.093	
	2	6.382	6.352	6.412	0.094	1.1
Endosulfan I	1	6.280	6.250	6.310	0.089	
	2	6.199	6.169	6.229	0.089	0.0
Endosulfan II	1	6.755	6.724	6.784	0.092	
	2	6.740	6.709	6.769	0.093	0.0
Endosulfan Sulfate	1	7.379	7.348	7.408	0.089	
	2	7.196	7.166	7.226	0.091	2.2
Endrin	1	6.598	6.568	6.628	0.089	
	2	6.586	6.556	6.616	0.087	2.3
Endrin Aldehyde	1	7.058	7.027	7.087	0.092	
	2	6.988	6.958	7.018	0.088	4.4
Endrin Ketone	1	7.584	7.553	7.613	0.093	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B205781-BS1 Date(s) Analyzed: 06/20/2018 06/20/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.583	7.552	7.612	0.091	2.2
gamma-BHC (Lindane)	1	5.208	5.179	5.239	0.084	
	2	5.188	5.158	5.218	0.073	14.0
gamma-Chlordane	1	6.109	6.078	6.138	0.087	
	2	6.075	6.044	6.104	0.084	3.5
Heptachlor	1	5.476	5.445	5.505	0.081	
	2	5.422	5.393	5.453	0.082	1.2
Heptachlor Epoxide	1	6.028	5.997	6.057	0.088	
	2	5.953	5.923	5.983	0.083	5.9
Hexachlorobenzene	1	4.949	4.919	4.979	0.090	
	2	4.930	4.900	4.960	0.088	2.3
Methoxychlor	1	7.242	7.212	7.272	0.094	
	2	7.463	7.433	7.493	0.092	2.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B205781-BSD1 Date(s) Analyzed: 06/20/2018 06/20/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.667	6.637	6.697	0.081	
	2	6.702	6.671	6.731	0.082	1.2
4,4'-DDE	1	6.260	6.230	6.290	0.079	
	2	6.300	6.270	6.330	0.079	0.0
4,4'-DDT	1	6.866	6.837	6.897	0.080	
	2	6.925	6.895	6.955	0.078	2.5
Alachlor	1	5.751	5.720	5.780	0.092	
	2	5.569	5.539	5.599	0.090	2.2
Aldrin	1	5.651	5.620	5.680	0.075	
	2	5.603	5.572	5.632	0.076	1.3
alpha-BHC	1	5.039	5.009	5.069	0.072	
	2	5.005	4.975	5.035	0.070	2.8
alpha-Chlordane	1	6.195	6.165	6.225	0.072	
	2	6.170	6.139	6.199	0.075	4.1
beta-BHC	1	5.259	5.229	5.289	0.073	
	2	5.238	5.208	5.268	0.071	2.8
delta-BHC	1	5.355	5.325	5.385	0.057	
	2	5.395	5.365	5.425	0.051	11.1
Dieldrin	1	6.443	6.412	6.472	0.080	
	2	6.382	6.352	6.412	0.081	1.2
Endosulfan I	1	6.280	6.250	6.310	0.076	
	2	6.200	6.169	6.229	0.078	2.6
Endosulfan II	1	6.754	6.724	6.784	0.078	
	2	6.739	6.709	6.769	0.081	3.8
Endosulfan Sulfate	1	7.379	7.348	7.408	0.077	
	2	7.196	7.166	7.226	0.079	2.6
Endrin	1	6.598	6.568	6.628	0.077	
	2	6.585	6.556	6.616	0.075	2.6
Endrin Aldehyde	1	7.057	7.027	7.087	0.079	
	2	6.988	6.958	7.018	0.075	5.2
Endrin Ketone	1	7.583	7.553	7.613	0.082	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B205781-BSD1 Date(s) Analyzed: 06/20/2018 06/20/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.583	7.552	7.612	0.080	2.5
gamma-BHC (Lindane)	1	5.209	5.179	5.239	0.075	
	2	5.188	5.158	5.218	0.064	15.8
gamma-Chlordane	1	6.108	6.078	6.138	0.073	
	2	6.074	6.044	6.104	0.073	0.0
Heptachlor	1	5.476	5.445	5.505	0.071	
	2	5.423	5.393	5.453	0.073	2.8
Heptachlor Epoxide	1	6.027	5.997	6.057	0.076	
	2	5.953	5.923	5.983	0.073	4.0
Hexachlorobenzene	1	4.949	4.919	4.979	0.080	
	2	4.930	4.900	4.960	0.077	3.8
Methoxychlor	1	7.242	7.212	7.272	0.078	
	2	7.463	7.433	7.493	0.080	2.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B205782-BS1 Date(s) Analyzed: 06/19/2018 06/19/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.19	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.18	10.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B205782-BSD1 Date(s) Analyzed: 06/19/2018 06/19/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.19	10.0
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.19	10.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 600 4-81-045 in Oil</i>	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
<i>SW-846 1030 in Soil</i>	
Ignitability	NY,NH,CT,NC,ME,VA
<i>SW-846 6010C-D in Soil</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Soil	
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

18P0619

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



7-Day 10-Day
 Due Date:
 1-Day 3-Day
 2-Day 4-Day
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To: roosneli@contestlabs.com
 Fax To #: 508-528-1000

Address: 10 Woburn St, Uxbridge, MA
 Phone: 617-607-1841
 Project Location: Hudson, MA
 Project Number: 12970.00
 Project Manager: Ross McKinlay
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: PEC

Con-Test Work Order	Clean Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composites	Matrix Code	Matrix Code	Con Code
1	MP11	6/7/18 14:00	6/7/18 14:00	X	S	S	V
2	MR23	6/7/18 10:15	6/7/18 10:15	X	S	S	V
3	MP19	6/7/18 11:20	6/7/18 11:20	X	S	S	V
4	MP4	6/7/18 14:20	6/7/18 14:20	X	S	S	V
5	SB1	6/7/18 7:45	6/7/18 7:45	X	S	S	V
7	MR22	6/7/18 13:00	6/7/18 13:00	X	S	S	V
8	MP20	6/7/18 15:00	6/7/18 15:00	X	S	S	V
9	MP10	6/8/18 14:00	6/8/18 14:00	X	S	S	V
10	MP3	6/7/18 8:30	6/7/18 8:30	X	S	S	V

20x rule for TELP

Relinquished by: (signature) _____ Date/Time: 6/13/18 1:13
 Received by: (signature) _____ Date/Time: 6/13/18 1:13
 Relinquished by: (signature) _____ Date/Time: 6/13/18 5:09A
 Received by: (signature) _____ Date/Time: 6-13-18 7:09
 Relinquished by: (signature) _____ Date/Time: _____
 Received by: (signature) _____ Date/Time: _____

ANALYSIS REQUESTED

ANALYSIS REQUESTED	1	2	3	4	5	6	7	8	9	10
ignitability, pH	X	X	X	X	X	X	X	X	X	X
Reactivity, conductivity	X	X	X	X	X	X	X	X	X	X
pest/herb	X	X	X	X	X	X	X	X	X	X
SVCs, PCBs, TPH	X	X	X	X	X	X	X	X	X	X
VOCs, URETH, NITRO	X	X	X	X	X	X	X	X	X	X
Reactive Sulfide	X	X	X	X	X	X	X	X	X	X
Reactive Cyanide	X	X	X	X	X	X	X	X	X	X

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

MA MCP Required
 MA Certification Form Required
 CE RCP Required
 RCP Certification Form Required
 MA State Firm Required
 PWSID # _____

Project Entity: Government Municipality MWRA WRTA Other Chromatogram AIHA-LAP, LLC

DL FV201 6-13-18
 E17.09

 www.contestlabs.com

of Containers _____
 Preservation Code _____
 Container Code _____
 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)
 Preservation Codes:
 1 = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Trisulfate
 O = Other (please define)
 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)



con-test
ANALYTICAL LABORATORY

Doc# 277 - Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By EJO Date 6-13-18 Time 13:09

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - Q.2/2.3
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? F Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project L ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? LIVE

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb /Clear
Meoh-	<u>18</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	<u>20</u>	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: <u>6-13-18 @ 13:09</u>
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

4 OZ Amber jars for sample mail dates and times do not match coc.

July 11, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18F1479

Enclosed are results of analyses for samples received by the laboratory on June 29, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent initial 'K'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 7/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F1479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB14	18F1479-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP15	18F1479-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F1479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB5	18F1479-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP1	18F1479-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F1479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB44	18F1479-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
SB15	18F1479-06	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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 Watertown, MA 02472
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REPORT DATE: 7/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18F1479

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP17	18F1479-07	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP19	18F1479-08	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 07/03/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8081B

Qualifications:**H-13**

Sample analysis performed past the recommended holding time due to a laboratory error.

Analyte & Samples(s) Qualified:

18F1479-02RE1[MP15]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4,4'-DDD**

B207027-MS1, B207027-MSD1

Endosulfan Sulfate

B207027-MS1, B207027-MSD1

Endrin Ketone

B207027-MS1, B207027-MSD1

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19]

SW-846 8151A

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**2,4,5-T**

18F1479-02[MP15]

2,4,5-T [2C]

18F1479-02[MP15]

2,4,5-TP (Silvex)

18F1479-02[MP15]

2,4,5-TP (Silvex) [2C]

18F1479-02[MP15]

2,4-D

18F1479-02[MP15]

2,4-D [2C]

18F1479-02[MP15]

2,4-DB

18F1479-02[MP15]

2,4-DB [2C]

18F1479-02[MP15]

2,4-Dichlorophenylacetic acid

18F1479-02[MP15]

2,4-Dichlorophenylacetic acid [2C]

18F1479-02[MP15]

Dalapon

18F1479-02[MP15]

Dalapon [2C]

18F1479-02[MP15]

Dicamba

18F1479-02[MP15]

Dicamba [2C]

18F1479-02[MP15]

H-03

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**Dichloroprop**

18F1479-02[MP15]

Dichloroprop [2C]

18F1479-02[MP15]

Dinoseb

18F1479-02[MP15]

Dinoseb [2C]

18F1479-02[MP15]

MCPA

18F1479-02[MP15]

MCPA [2C]

18F1479-02[MP15]

MCPP

18F1479-02[MP15]

MCPP [2C]

18F1479-02[MP15]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dinoseb**

B207020-BS1, B207020-BSD1, B207020-MS1, B207020-MSD1

SW-846 8260C

Qualifications:**H-09**

Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.

Analyte & Samples(s) Qualified:

18F1479-02[MP15]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

18F1479-07[MP17], 18F1479-08[MP19], B207266-BLK1, B207266-BS1, B207266-BSD1

Trichlorofluoromethane (Freon 11)

18F1479-07[MP17], 18F1479-08[MP19], B207266-BLK1, B207266-BS1, B207266-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], B207076-BLK1, B207076-BS1, B207076-BSD1, B207160-BLK1, B207160-BS1, B207160-BSD1, B207268-BLK1, B207268-BS1, B207268-BSD1, S024886-CCV1, S024932-CCV1, S024965-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B207076-BLK1, B207076-BS1, B207076-BSD1, B207160-BLK1, B207160-BS1, B207160-BSD1, B207266-BLK1, B207266-BS1, B207266-BSD1, B207268-BLK1, B207268-BS1, B207268-BSD1

Tetrahydrofuran

18F1479-07[MP17], 18F1479-08[MP19], B207266-BLK1, B207266-BS1, B207266-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B207076-BS1, B207076-BSD1, B207160-BS1, B207160-BSD1, S024886-CCV1, S024932-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B207076-BLK1, B207076-BS1, B207076-BSD1, B207160-BLK1, B207160-BS1, B207160-BSD1, B207266-BLK1, B207266-BS1, B207266-BSD1, B207268-BLK1, B207268-BS1, B207268-BSD1, S024886-CCV1, S024932-CCV1, S024965-CCV1, S024968-CCV1

Dichlorodifluoromethane (Freon 12)

18F1479-07[MP17], 18F1479-08[MP19], B207266-BLK1, B207266-BS1, B207266-BSD1, S024968-CCV1

SW-846 8270D**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Pentachlorophenol**

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B207031-BLK1, B207031-BS1, B207031-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Aniline**

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206968-BLK1, B206968-BS1, B206968-BSD1, B207031-BLK1, B207031-BS1, B207031-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

B206968-BS1, B206968-BSD1, B207031-BS1, B207031-BSD1

4-Nitrophenol

B206968-BS1, B206968-BSD1, B207031-BS1, B207031-BSD1

Bis(2-chloroisopropyl)ether

B207031-BS1, B207031-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206968-BLK1, B207031-BLK1

4-Nitrophenol

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206968-BLK1, B207031-BLK1

Bis(2-chloroisopropyl)ether

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B207031-BLK1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

18F1479-01[SB14], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206968-BLK1, B206968-BS1, B206968-BSD1, B207031-BLK1, B207031-BS1, B207031-BSD1

4-Chloroaniline

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206968-BLK1, B206968-BS1, B206968-BSD1, B207031-BLK1, B207031-BS1, B207031-BSD1

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SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18F1479-01[SB14], 18F1479-02[MP15], 18F1479-03[SB5], 18F1479-04[MP1], 18F1479-05[SB44], 18F1479-06[SB15], 18F1479-07[MP17], 18F1479-08[MP19], B206982-DUP1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB14

Sampled: 6/25/2018 13:00

Sample ID: 18F1479-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Bromoform	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Bromomethane	ND	0.0063	mg/Kg dry	1	V-34	SW-846 8260C	7/3/18	7/3/18 14:13	MFF
2-Butanone (MEK)	ND	0.025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Carbon Disulfide	ND	0.0038	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Carbon Tetrachloride	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Chlorodibromomethane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Chloroethane	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Chloroform	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Chloromethane	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2-Dibromoethane (EDB)	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0063	mg/Kg dry	1	V-05	SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1-Dichloroethylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,3-Dichloropropane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
2,2-Dichloropropane	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
cis-1,3-Dichloropropene	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
trans-1,3-Dichloropropene	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Diethyl Ether	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Diisopropyl Ether (DIPE)	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,4-Dioxane	ND	0.063	mg/Kg dry	1	V-16	SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB14

Sampled: 6/25/2018 13:00

Sample ID: 18F1479-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Methylene Chloride	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Naphthalene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
n-Propylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Styrene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Tetrahydrofuran	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
1,3,5-Trimethylbenzene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
Vinyl Chloride	ND	0.0063	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
m+p Xylene	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.4	70-130	7/3/18 14:13
Toluene-d8	101	70-130	7/3/18 14:13
4-Bromofluorobenzene	94.6	70-130	7/3/18 14:13

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB14

Sampled: 6/25/2018 13:00

Sample ID: 18F1479-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
4-Nitrophenol	ND	0.72	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 15:41	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.0	30-130					7/3/18 15:41	
Phenol-d6		62.3	30-130					7/3/18 15:41	
Nitrobenzene-d5		59.7	30-130					7/3/18 15:41	
2-Fluorobiphenyl		57.3	30-130					7/3/18 15:41	
2,4,6-Tribromophenol		64.4	30-130					7/3/18 15:41	
p-Terphenyl-d14		68.0	30-130					7/3/18 15:41	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
4,4'-DDT [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endosulfan II [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endosulfan sulfate [2]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endrin [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endrin aldehyde [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Endrin ketone [2]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Hexachlorobenzene [1]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 17:57	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.8	30-150					7/6/18 17:57	
Decachlorobiphenyl [2]		85.2	30-150					7/6/18 17:57	
Tetrachloro-m-xylene [1]		61.7	30-150					7/6/18 17:57	
Tetrachloro-m-xylene [2]		60.5	30-150					7/6/18 17:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB14

Sampled: 6/25/2018 13:00

Sample ID: 18F1479-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.1	30-150					7/3/18 13:23	
Decachlorobiphenyl [2]		92.3	30-150					7/3/18 13:23	
Tetrachloro-m-xylene [1]		76.3	30-150					7/3/18 13:23	
Tetrachloro-m-xylene [2]		76.2	30-150					7/3/18 13:23	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
Dalapon [1]	ND	68	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
Dinoseb [2]	ND	14	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 15:50	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		83.7	30-150					7/3/18 15:50	
2,4-Dichlorophenylacetic acid [2]		83.8	30-150					7/3/18 15:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	15	9.1	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 12:47	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		66.7	40-140					7/3/18 12:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Arsenic	4.1	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Barium	30	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Cadmium	0.20	0.18	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Chromium	15	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Lead	6.2	0.54	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:05	EJB
Nickel	9.3	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Vanadium	17	0.71	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW
Zinc	19	0.71	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:16	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/25/2018 13:00

Field Sample #: SB14

Sample ID: 18F1479-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @23.4°C	7.0		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	4.2	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	91.1		% Wt	1		SM 2540G	7/5/18	7/6/18 8:55	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP15

Sampled: 6/15/2018 12:06

Sample ID: 18F1479-02

Sample Matrix: Soil

Sample Flags: H-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Bromoform	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Bromomethane	ND	0.0065	mg/Kg dry	1	V-34	SW-846 8260C	7/2/18	7/2/18 12:08	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Carbon Tetrachloride	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Chlorodibromomethane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Chloroethane	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Chloromethane	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2-Dibromoethane (EDB)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0065	mg/Kg dry	1	V-05	SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,3-Dichloropropane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
2,2-Dichloropropane	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
cis-1,3-Dichloropropene	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
trans-1,3-Dichloropropene	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Diethyl Ether	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Diisopropyl Ether (DIPE)	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,4-Dioxane	ND	0.065	mg/Kg dry	1	V-16	SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP15

Sampled: 6/15/2018 12:06

Sample ID: 18F1479-02

Sample Matrix: Soil

Sample Flags: H-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Methylene Chloride	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
n-Propylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Styrene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Tetrahydrofuran	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
Vinyl Chloride	ND	0.0065	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	7/2/18 12:08
Toluene-d8	99.5	70-130	7/2/18 12:08
4-Bromofluorobenzene	97.7	70-130	7/2/18 12:08

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
4-Chloroaniline	ND	0.69	mg/Kg dry	1	V-34	SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	6/29/18	7/2/18 19:38	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		53.0	30-130					7/2/18 19:38	
Phenol-d6		57.0	30-130					7/2/18 19:38	
Nitrobenzene-d5		52.8	30-130					7/2/18 19:38	
2-Fluorobiphenyl		54.1	30-130					7/2/18 19:38	
2,4,6-Tribromophenol		59.3	30-130					7/2/18 19:38	
p-Terphenyl-d14		62.3	30-130					7/2/18 19:38	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP15

Sampled: 6/15/2018 12:06

Sample ID: 18F1479-02

Sample Matrix: Soil

Sample Flags: H-13

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
4,4'-DDD [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endosulfan sulfate [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Endrin ketone [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Hexachlorobenzene [1]	ND	0.0064	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:24	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.6	30-150					7/6/18 18:24	
Decachlorobiphenyl [2]		81.9	30-150					7/6/18 18:24	
Tetrachloro-m-xylene [1]		64.8	30-150					7/6/18 18:24	
Tetrachloro-m-xylene [2]		62.7	30-150					7/6/18 18:24	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP15

Sampled: 6/15/2018 12:06

Sample ID: 18F1479-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	6/29/18	7/2/18 12:13	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.9	30-150					7/2/18 12:13	
Decachlorobiphenyl [2]		77.5	30-150					7/2/18 12:13	
Tetrachloro-m-xylene [1]		86.0	30-150					7/2/18 12:13	
Tetrachloro-m-xylene [2]		99.9	30-150					7/2/18 12:13	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
2,4-DB [1]	ND	27	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
Dalalpon [1]	ND	67	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
Dicamba [1]	ND	2.7	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
Dichloroprop [1]	ND	27	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
Dinoseb [2]	ND	13	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
MCPA [1]	ND	2700	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
MCPP [1]	ND	2700	µg/kg dry	1	H-03	SW-846 8151A	7/2/18	7/3/18 16:31	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		79.2	30-150		H-03			7/3/18 16:31	
2,4-Dichlorophenylacetic acid [2]		78.7	30-150		H-03			7/3/18 16:31	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	14	8.7	mg/Kg dry	1		SW-846 8100 Modified	6/29/18	7/2/18 13:07	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		54.4	40-140					7/2/18 13:07	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Arsenic	5.4	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Barium	40	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Cadmium	0.26	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Chromium	22	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Lead	7.1	0.51	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:07	EJB
Nickel	17	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Vanadium	24	0.68	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW
Zinc	30	0.68	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:21	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/15/2018 12:06

Field Sample #: MP15

Sample ID: 18F1479-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @23.2°C	6.0		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	3.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	93.6		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB5

Sampled: 6/21/2018 11:00

Sample ID: 18F1479-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Benzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Bromobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Bromochloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Bromodichloromethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Bromoform	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Bromomethane	ND	0.0086	mg/Kg dry	1	V-34	SW-846 8260C	7/2/18	7/2/18 12:37	MFF
2-Butanone (MEK)	ND	0.034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
n-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
sec-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
tert-Butylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Carbon Disulfide	ND	0.0052	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Carbon Tetrachloride	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Chlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Chlorodibromomethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Chloroethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Chloroform	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Chloromethane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
2-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
4-Chlorotoluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Dibromomethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,3-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,4-Dichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0086	mg/Kg dry	1	V-05	SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2-Dichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1-Dichloroethylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
cis-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
trans-1,2-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2-Dichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,3-Dichloropropane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
2,2-Dichloropropane	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1-Dichloropropene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
cis-1,3-Dichloropropene	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
trans-1,3-Dichloropropene	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Diethyl Ether	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,4-Dioxane	ND	0.086	mg/Kg dry	1	V-16	SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Ethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB5

Sampled: 6/21/2018 11:00

Sample ID: 18F1479-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
2-Hexanone (MBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Isopropylbenzene (Cumene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Methylene Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Naphthalene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
n-Propylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Styrene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Tetrachloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Tetrahydrofuran	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Toluene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2,3-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2,4-Trichlorobenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1,1-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,1,2-Trichloroethane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Trichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2,3-Trichloropropane	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,2,4-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
Vinyl Chloride	ND	0.0086	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
m+p Xylene	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF
o-Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/2/18	7/2/18 12:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	7/2/18 12:37
Toluene-d8	100	70-130	7/2/18 12:37
4-Bromofluorobenzene	95.5	70-130	7/2/18 12:37

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB5

Sampled: 6/21/2018 11:00

Sample ID: 18F1479-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Aniline	ND	0.35	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/21/2018 11:00

Field Sample #: SB5

Sample ID: 18F1479-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
4-Nitrophenol	ND	0.68	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Pentachlorophenol	ND	0.35	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:05	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		57.9	30-130					7/3/18 16:05	
Phenol-d6		60.6	30-130					7/3/18 16:05	
Nitrobenzene-d5		60.1	30-130					7/3/18 16:05	
2-Fluorobiphenyl		53.5	30-130					7/3/18 16:05	
2,4,6-Tribromophenol		54.4	30-130					7/3/18 16:05	
p-Terphenyl-d14		61.0	30-130					7/3/18 16:05	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/21/2018 11:00

Field Sample #: SB5

Sample ID: 18F1479-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Aldrin [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
alpha-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
beta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
delta-BHC [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
4,4'-DDD [2]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endosulfan I [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endosulfan II [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endosulfan sulfate [2]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endrin [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endrin aldehyde [1]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Endrin ketone [2]	ND	0.0082	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Heptachlor [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Heptachlor epoxide [1]	ND	0.0051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Methoxychlor [1]	ND	0.051	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 18:51	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.8	30-150					7/6/18 18:51	
Decachlorobiphenyl [2]		78.8	30-150					7/6/18 18:51	
Tetrachloro-m-xylene [1]		55.5	30-150					7/6/18 18:51	
Tetrachloro-m-xylene [2]		55.1	30-150					7/6/18 18:51	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB5

Sampled: 6/21/2018 11:00

Sample ID: 18F1479-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:41	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.0	30-150					7/3/18 13:41	
Decachlorobiphenyl [2]		77.7	30-150					7/3/18 13:41	
Tetrachloro-m-xylene [1]		66.4	30-150					7/3/18 13:41	
Tetrachloro-m-xylene [2]		66.9	30-150					7/3/18 13:41	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/21/2018 11:00

Field Sample #: SB5

Sample ID: 18F1479-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
Dalapon [1]	ND	64	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:13	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	66.8	30-150						7/3/18 17:13	
2,4-Dichlorophenylacetic acid [2]	71.9	30-150						7/3/18 17:13	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB5

Sampled: 6/21/2018 11:00

Sample ID: 18F1479-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	21	8.6	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 13:05	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		60.9	40-140					7/3/18 13:05	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/21/2018 11:00

Field Sample #: SB5

Sample ID: 18F1479-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Arsenic	18	1.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Barium	42	1.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Beryllium	ND	0.16	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Cadmium	0.60	0.16	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Chromium	18	0.33	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Lead	11	0.49	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:08	EJB
Nickel	12	0.33	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Thallium	ND	1.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Vanadium	21	0.66	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW
Zinc	44	0.66	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:25	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/21/2018 11:00

Field Sample #: SB5

Sample ID: 18F1479-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @23.3°C	5.9		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	2.2	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	97.4		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP1

Sampled: 6/26/2018 11:35

Sample ID: 18F1479-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Bromoform	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Bromomethane	ND	0.0074	mg/Kg dry	1	V-34	SW-846 8260C	7/3/18	7/3/18 14:44	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Carbon Tetrachloride	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Chlorodibromomethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Chloroethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Chloromethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0074	mg/Kg dry	1	V-05	SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,3-Dichloropropane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
2,2-Dichloropropane	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
cis-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
trans-1,3-Dichloropropene	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Diethyl Ether	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Diisopropyl Ether (DIPE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,4-Dioxane	ND	0.074	mg/Kg dry	1	V-16	SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP1

Sampled: 6/26/2018 11:35

Sample ID: 18F1479-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Methylene Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
n-Propylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Styrene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Tetrahydrofuran	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
1,3,5-Trimethylbenzene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
Vinyl Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 14:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.5	70-130	7/3/18 14:44
Toluene-d8	101	70-130	7/3/18 14:44
4-Bromofluorobenzene	96.8	70-130	7/3/18 14:44

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP1

Sampled: 6/26/2018 11:35

Sample ID: 18F1479-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
4-Chloroaniline	ND	0.75	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
4-Nitrophenol	ND	0.75	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:30	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	40.5	30-130	
Phenol-d6	43.5	30-130	
Nitrobenzene-d5	41.0	30-130	
2-Fluorobiphenyl	38.7	30-130	
2,4,6-Tribromophenol	43.2	30-130	
p-Terphenyl-d14	47.6	30-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Aldrin [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
alpha-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
beta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
delta-BHC [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
4,4'-DDD [2]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
4,4'-DDT [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endosulfan I [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endosulfan II [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endosulfan sulfate [2]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endrin [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endrin aldehyde [1]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Endrin ketone [2]	ND	0.0091	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Heptachlor [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Heptachlor epoxide [1]	ND	0.0057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Hexachlorobenzene [1]	ND	0.0068	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Methoxychlor [1]	ND	0.057	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.1	30-150					7/6/18 19:17	
Decachlorobiphenyl [2]		72.8	30-150					7/6/18 19:17	
Tetrachloro-m-xylene [1]		56.1	30-150					7/6/18 19:17	
Tetrachloro-m-xylene [2]		55.2	30-150					7/6/18 19:17	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP1

Sampled: 6/26/2018 11:35

Sample ID: 18F1479-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 13:59	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.7	30-150					7/3/18 13:59	
Decachlorobiphenyl [2]		78.9	30-150					7/3/18 13:59	
Tetrachloro-m-xylene [1]		68.4	30-150					7/3/18 13:59	
Tetrachloro-m-xylene [2]		69.7	30-150					7/3/18 13:59	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
2,4-DB [1]	ND	28	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
Dalapon [1]	ND	70	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
Dinoseb [2]	ND	14	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
MCPP [1]	ND	2800	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 17:54	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		79.2	30-150					7/3/18 17:54	
2,4-Dichlorophenylacetic acid [2]		83.4	30-150					7/3/18 17:54	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	9.7	9.4	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 11:52	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		42.7	40-140					7/3/18 11:52	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Arsenic	3.0	1.9	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Barium	140	1.9	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Beryllium	ND	0.19	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Cadmium	0.30	0.19	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Chromium	39	0.37	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Lead	11	0.56	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:10	EJB
Nickel	9.0	0.37	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Selenium	ND	3.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Silver	ND	0.37	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Vanadium	61	0.75	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW
Zinc	38	0.75	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:29	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/26/2018 11:35

Field Sample #: MP1

Sample ID: 18F1479-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @23.4°C	5.4		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	4.0	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	88.4		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB44

Sampled: 6/27/2018 10:10

Sample ID: 18F1479-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Bromoform	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Bromomethane	ND	0.0054	mg/Kg dry	1	V-34	SW-846 8260C	7/3/18	7/3/18 15:13	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Carbon Disulfide	ND	0.0032	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Chlorodibromomethane	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Chloroethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Chloromethane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2-Dibromoethane (EDB)	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0054	mg/Kg dry	1	V-05	SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,3-Dichloropropane	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
2,2-Dichloropropane	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
cis-1,3-Dichloropropene	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
trans-1,3-Dichloropropene	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Diethyl Ether	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Diisopropyl Ether (DIPE)	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,4-Dioxane	ND	0.054	mg/Kg dry	1	V-16	SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB44

Sampled: 6/27/2018 10:10

Sample ID: 18F1479-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Methylene Chloride	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Naphthalene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Tetrahydrofuran	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
Vinyl Chloride	ND	0.0054	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/3/18	7/3/18 15:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.2	70-130	7/3/18 15:13
Toluene-d8	101	70-130	7/3/18 15:13
4-Bromofluorobenzene	98.2	70-130	7/3/18 15:13

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB44

Sampled: 6/27/2018 10:10

Sample ID: 18F1479-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 10:10

Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 16:56	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		43.9	30-130					7/3/18 16:56	
Phenol-d6		48.5	30-130					7/3/18 16:56	
Nitrobenzene-d5		45.0	30-130					7/3/18 16:56	
2-Fluorobiphenyl		44.1	30-130					7/3/18 16:56	
2,4,6-Tribromophenol		46.9	30-130					7/3/18 16:56	
p-Terphenyl-d14		55.7	30-130					7/3/18 16:56	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 10:10

Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
4,4'-DDD [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endosulfan sulfate [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Endrin ketone [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 19:44	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.0	30-150					7/6/18 19:44	
Decachlorobiphenyl [2]		74.5	30-150					7/6/18 19:44	
Tetrachloro-m-xylene [1]		34.2	30-150					7/6/18 19:44	
Tetrachloro-m-xylene [2]		34.1	30-150					7/6/18 19:44	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB44

Sampled: 6/27/2018 10:10

Sample ID: 18F1479-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:17	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.1	30-150					7/3/18 14:17	
Decachlorobiphenyl [2]		98.9	30-150					7/3/18 14:17	
Tetrachloro-m-xylene [1]		51.9	30-150					7/3/18 14:17	
Tetrachloro-m-xylene [2]		54.4	30-150					7/3/18 14:17	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 10:10

Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 18:35	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		74.0	30-150					7/3/18 18:35	
2,4-Dichlorophenylacetic acid [2]		71.5	30-150					7/3/18 18:35	

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Project Location: Hudson, MA

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Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	11	9.0	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 13:23	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		45.5	40-140					7/3/18 13:23	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 10:10

Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Arsenic	2.8	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Barium	32	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Chromium	14	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Lead	5.8	0.54	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:11	EJB
Nickel	9.3	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Vanadium	17	0.71	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW
Zinc	19	0.71	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:34	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 10:10

Field Sample #: SB44

Sample ID: 18F1479-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @23.6°C	8.4		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	8.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	92.9		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Benzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Bromobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Bromochloromethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Bromodichloromethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Bromoform	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Bromomethane	ND	0.0042	mg/Kg dry	1	V-34	SW-846 8260C	7/3/18	7/5/18 13:54	MFF
2-Butanone (MEK)	ND	0.017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
n-Butylbenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
sec-Butylbenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
tert-Butylbenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Carbon Disulfide	ND	0.0025	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Carbon Tetrachloride	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Chlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Chlorodibromomethane	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Chloroethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Chloroform	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Chloromethane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
2-Chlorotoluene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
4-Chlorotoluene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2-Dibromoethane (EDB)	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Dibromomethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2-Dichlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,3-Dichlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,4-Dichlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0042	mg/Kg dry	1	V-05	SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1-Dichloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2-Dichloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1-Dichloroethylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
cis-1,2-Dichloroethylene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
trans-1,2-Dichloroethylene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2-Dichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,3-Dichloropropane	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
2,2-Dichloropropane	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1-Dichloropropene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
cis-1,3-Dichloropropene	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Diethyl Ether	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Diisopropyl Ether (DIPE)	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,4-Dioxane	ND	0.042	mg/Kg dry	1	V-16	SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Ethylbenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB15

Sampled: 6/27/2018 11:50

Sample ID: 18F1479-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
2-Hexanone (MBK)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Isopropylbenzene (Cumene)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Methylene Chloride	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.0083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Naphthalene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
n-Propylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Styrene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1,1,2-Tetrachloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Tetrachloroethylene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Tetrahydrofuran	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Toluene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2,3-Trichlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2,4-Trichlorobenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1,1-Trichloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,1,2-Trichloroethane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Trichloroethylene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2,3-Trichloropropane	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,2,4-Trimethylbenzene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
1,3,5-Trimethylbenzene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
Vinyl Chloride	ND	0.0042	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
m+p Xylene	ND	0.0017	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF
o-Xylene	ND	0.00083	mg/Kg dry	1		SW-846 8260C	7/3/18	7/5/18 13:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	98.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Aniline	ND	0.35	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
4-Nitrophenol	ND	0.68	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Pentachlorophenol	ND	0.35	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:20	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		62.8	30-130					7/3/18 17:20	
Phenol-d6		65.5	30-130					7/3/18 17:20	
Nitrobenzene-d5		64.1	30-130					7/3/18 17:20	
2-Fluorobiphenyl		59.9	30-130					7/3/18 17:20	
2,4,6-Tribromophenol		62.5	30-130					7/3/18 17:20	
p-Terphenyl-d14		70.4	30-130					7/3/18 17:20	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
4,4'-DDD [2]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
4,4'-DDE [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
4,4'-DDT [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Dieldrin [1]	ND	0.0041	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endosulfan II [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endosulfan sulfate [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endrin [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endrin aldehyde [1]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Endrin ketone [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Hexachlorobenzene [1]	ND	0.0062	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:11	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.8	30-150					7/7/18 8:40	
Decachlorobiphenyl [2]		81.7	30-150					7/7/18 8:40	
Tetrachloro-m-xylene [1]		39.0	30-150					7/7/18 8:40	
Tetrachloro-m-xylene [2]		39.8	30-150					7/7/18 8:40	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: SB15

Sampled: 6/27/2018 11:50

Sample ID: 18F1479-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:34	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.1	30-150					7/3/18 14:34	
Decachlorobiphenyl [2]		92.3	30-150					7/3/18 14:34	
Tetrachloro-m-xylene [1]		45.4	30-150					7/3/18 14:34	
Tetrachloro-m-xylene [2]		47.8	30-150					7/3/18 14:34	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:16	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		84.2	30-150					7/3/18 19:16	
2,4-Dichlorophenylacetic acid [2]		85.3	30-150					7/3/18 19:16	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	21	8.6	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 13:42	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		59.8	40-140					7/3/18 13:42	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Arsenic	6.0	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Barium	40	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Cadmium	0.24	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Chromium	17	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Lead	8.5	0.51	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:13	EJB
Nickel	10	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Vanadium	20	0.68	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW
Zinc	25	0.68	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:39	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 11:50

Field Sample #: SB15

Sample ID: 18F1479-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @22.8°C	7.6		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	3.6	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	96.8		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Bromomethane	ND	0.0057	mg/Kg dry	1	R-05, V-34	SW-846 8260C	7/5/18	7/5/18 10:22	MFF
2-Butanone (MEK)	ND	0.023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Carbon Disulfide	ND	0.0034	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Chlorodibromomethane	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Chloroethane	ND	0.0057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Chloroform	ND	0.0023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Chloromethane	ND	0.0057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2-Dibromoethane (EDB)	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0057	mg/Kg dry	1	V-34	SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,3-Dichloropropane	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
cis-1,3-Dichloropropene	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
trans-1,3-Dichloropropene	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Diethyl Ether	ND	0.0057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Diisopropyl Ether (DIPE)	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,4-Dioxane	ND	0.057	mg/Kg dry	1	V-16	SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Methylene Chloride	ND	0.0057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Naphthalene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Tetrahydrofuran	ND	0.0057	mg/Kg dry	1	V-16	SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0057	mg/Kg dry	1	R-05	SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
Vinyl Chloride	ND	0.0057	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
m+p Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.9	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	99.8	70-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Benzo(b)fluoranthene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-20, V-34	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Fluoranthene	0.31	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 14:30

Field Sample #: MP17

Sample ID: 18F1479-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Pyrene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 17:45	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		56.0	30-130					7/3/18 17:45	
Phenol-d6		57.0	30-130					7/3/18 17:45	
Nitrobenzene-d5		58.4	30-130					7/3/18 17:45	
2-Fluorobiphenyl		51.0	30-130					7/3/18 17:45	
2,4,6-Tribromophenol		47.9	30-130					7/3/18 17:45	
p-Terphenyl-d14		58.7	30-130					7/3/18 17:45	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Aldrin [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
alpha-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
beta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
delta-BHC [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Chlordane [1]	0.028	0.021	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
4,4'-DDD [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
4,4'-DDE [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
4,4'-DDT [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Dieldrin [1]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endosulfan I [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endosulfan II [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endosulfan sulfate [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endrin [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endrin aldehyde [1]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Endrin ketone [2]	ND	0.0084	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Heptachlor [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Heptachlor epoxide [1]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Hexachlorobenzene [1]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Methoxychlor [1]	ND	0.052	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Toxaphene [1]	ND	0.10	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 20:38	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.7	30-150					7/6/18 20:38	
Decachlorobiphenyl [2]		78.0	30-150					7/6/18 20:38	
Tetrachloro-m-xylene [1]		67.4	30-150					7/6/18 20:38	
Tetrachloro-m-xylene [2]		64.7	30-150					7/6/18 20:38	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/2/18	7/3/18 14:52	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		109	30-150					7/3/18 14:52	
Decachlorobiphenyl [2]		111	30-150					7/3/18 14:52	
Tetrachloro-m-xylene [1]		106	30-150					7/3/18 14:52	
Tetrachloro-m-xylene [2]		109	30-150					7/3/18 14:52	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP17

Sampled: 6/27/2018 14:30

Sample ID: 18F1479-07

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 19:56	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		77.9	30-150					7/3/18 19:56	
2,4-Dichlorophenylacetic acid [2]		77.8	30-150					7/3/18 19:56	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 14:30

Field Sample #: MP17

Sample ID: 18F1479-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	57	8.8	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 14:00	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		52.7	40-140					7/3/18 14:00	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 14:30

Field Sample #: MP17

Sample ID: 18F1479-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Arsenic	4.5	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Barium	37	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Cadmium	0.22	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Chromium	17	0.35	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Lead	8.1	0.52	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:15	EJB
Nickel	8.5	0.35	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Vanadium	21	0.70	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW
Zinc	22	0.70	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:53	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 14:30

Field Sample #: MP17

Sample ID: 18F1479-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @22.8°C	8.7		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	21	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	94.8		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP19

Sampled: 6/27/2018 09:34

Sample ID: 18F1479-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.18	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Benzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Bromobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Bromochloromethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Bromodichloromethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Bromoform	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Bromomethane	ND	0.018	mg/Kg dry	1	R-05, V-34	SW-846 8260C	7/5/18	7/5/18 10:50	MFF
2-Butanone (MEK)	ND	0.071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
n-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
sec-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
tert-Butylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Carbon Disulfide	ND	0.011	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Carbon Tetrachloride	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Chlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Chlorodibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Chloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Chloroform	ND	0.0071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Chloromethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
2-Chlorotoluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
4-Chlorotoluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2-Dibromoethane (EDB)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Dibromomethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,3-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,4-Dichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	mg/Kg dry	1	V-34	SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1-Dichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2-Dichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1-Dichloroethylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
cis-1,2-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
trans-1,2-Dichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2-Dichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,3-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
2,2-Dichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1-Dichloropropene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
cis-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
trans-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Diethyl Ether	ND	0.018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Diisopropyl Ether (DIPE)	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,4-Dioxane	ND	0.18	mg/Kg dry	1	V-16	SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Ethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP19

Sampled: 6/27/2018 09:34

Sample ID: 18F1479-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
2-Hexanone (MBK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Isopropylbenzene (Cumene)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Methylene Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Naphthalene	ND	0.0071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
n-Propylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Styrene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Tetrachloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Tetrahydrofuran	ND	0.018	mg/Kg dry	1	V-16	SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Toluene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2,4-Trichlorobenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1,1-Trichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,1,2-Trichloroethane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Trichloroethylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.018	mg/Kg dry	1	R-05	SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2,3-Trichloropropane	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,2,4-Trimethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
1,3,5-Trimethylbenzene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
Vinyl Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
m+p Xylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF
o-Xylene	ND	0.0036	mg/Kg dry	1		SW-846 8260C	7/5/18	7/5/18 10:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.0	70-130	7/5/18 10:50
Toluene-d8	98.1	70-130	7/5/18 10:50
4-Bromofluorobenzene	100	70-130	7/5/18 10:50

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP19

Sampled: 6/27/2018 09:34

Sample ID: 18F1479-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-04	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34, V-20	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-34	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1	L-04	SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	7/2/18	7/3/18 18:09	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		57.2	30-130					7/3/18 18:09	
Phenol-d6		59.8	30-130					7/3/18 18:09	
Nitrobenzene-d5		58.8	30-130					7/3/18 18:09	
2-Fluorobiphenyl		54.0	30-130					7/3/18 18:09	
2,4,6-Tribromophenol		58.4	30-130					7/3/18 18:09	
p-Terphenyl-d14		66.0	30-130					7/3/18 18:09	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
4,4'-DDD [2]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
4,4'-DDE [2]	0.012	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
4,4'-DDT [1]	0.012	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endosulfan sulfate [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endrin aldehyde [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Endrin ketone [2]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Hexachlorobenzene [1]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Toxaphene [1]	ND	0.11	mg/Kg dry	1		SW-846 8081B	7/2/18	7/6/18 21:05	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.6	30-150					7/6/18 21:05	
Decachlorobiphenyl [2]		72.4	30-150					7/6/18 21:05	
Tetrachloro-m-xylene [1]		62.1	30-150					7/6/18 21:05	
Tetrachloro-m-xylene [2]		61.5	30-150					7/6/18 21:05	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Field Sample #: MP19

Sampled: 6/27/2018 09:34

Sample ID: 18F1479-08

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/2/18	7/5/18 13:08	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					7/5/18 13:08	
Decachlorobiphenyl [2]		119	30-150					7/5/18 13:08	
Tetrachloro-m-xylene [1]		85.9	30-150					7/5/18 13:08	
Tetrachloro-m-xylene [2]		97.4	30-150					7/5/18 13:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
Dinoseb [2]	ND	13	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	7/2/18	7/3/18 20:37	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		92.8	30-150					7/3/18 20:37	
2,4-Dichlorophenylacetic acid [2]		99.0	30-150					7/3/18 20:37	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	110	8.9	mg/Kg dry	1		SW-846 8100 Modified	7/2/18	7/3/18 14:18	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		57.0	40-140					7/3/18 14:18	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Arsenic	5.1	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Barium	23	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Cadmium	0.22	0.17	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Chromium	12	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Lead	9.2	0.51	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	7/7/18	7/10/18 11:16	EJB
Nickel	8.2	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Vanadium	15	0.69	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW
Zinc	57	0.69	mg/Kg dry	1		SW-846 6010C-D	7/9/18	7/10/18 16:57	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18F1479

Date Received: 6/29/2018

Sampled: 6/27/2018 09:34

Field Sample #: MP19

Sample ID: 18F1479-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	6/29/18	6/29/18 15:00	LED
pH @22.1°C	6.8		pH Units	1	H-03	SW-846 9045C	6/29/18	6/29/18 20:06	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	7/5/18	7/6/18 18:00	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	7/5/18	7/6/18 17:20	DJM
Specific conductance	2.5	2.0	µmhos/cm	1		SM21-22 2510B Modified	7/9/18	7/9/18 13:45	EC
% Solids	92.8		% Wt	1		SM 2540G	7/5/18	7/6/18 8:56	MRL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18F1479-01 [SB14]	B207237	07/05/18
18F1479-02 [MP15]	B207237	07/05/18
18F1479-03 [SB5]	B207237	07/05/18
18F1479-04 [MP1]	B207237	07/05/18
18F1479-05 [SB44]	B207237	07/05/18
18F1479-06 [SB15]	B207237	07/05/18
18F1479-07 [MP17]	B207237	07/05/18
18F1479-08 [MP19]	B207237	07/05/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18F1479-01 [SB14]	B207461	1.00	07/09/18
18F1479-02 [MP15]	B207461	1.00	07/09/18
18F1479-03 [SB5]	B207461	1.00	07/09/18
18F1479-04 [MP1]	B207461	1.00	07/09/18
18F1479-05 [SB44]	B207461	1.00	07/09/18
18F1479-06 [SB15]	B207461	1.00	07/09/18
18F1479-07 [MP17]	B207461	1.00	07/09/18
18F1479-08 [MP19]	B207461	1.00	07/09/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18F1479-01 [SB14]	B206977	50.0	06/29/18
18F1479-02 [MP15]	B206977	50.0	06/29/18
18F1479-03 [SB5]	B206977	50.0	06/29/18
18F1479-04 [MP1]	B206977	50.0	06/29/18
18F1479-05 [SB44]	B206977	50.0	06/29/18
18F1479-06 [SB15]	B206977	50.0	06/29/18
18F1479-07 [MP17]	B206977	50.0	06/29/18
18F1479-08 [MP19]	B206977	50.0	06/29/18

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207427	1.54	50.0	07/09/18
18F1479-02 [MP15]	B207427	1.56	50.0	07/09/18
18F1479-03 [SB5]	B207427	1.56	50.0	07/09/18
18F1479-04 [MP1]	B207427	1.52	50.0	07/09/18
18F1479-05 [SB44]	B207427	1.51	50.0	07/09/18
18F1479-06 [SB15]	B207427	1.52	50.0	07/09/18
18F1479-07 [MP17]	B207427	1.51	50.0	07/09/18
18F1479-08 [MP19]	B207427	1.57	50.0	07/09/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207428	0.620	50.0	07/07/18
18F1479-02 [MP15]	B207428	0.624	50.0	07/07/18

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-03 [SB5]	B207428	0.598	50.0	07/07/18
18F1479-04 [MP1]	B207428	0.603	50.0	07/07/18
18F1479-05 [SB44]	B207428	0.578	50.0	07/07/18
18F1479-06 [SB15]	B207428	0.612	50.0	07/07/18
18F1479-07 [MP17]	B207428	0.604	50.0	07/07/18
18F1479-08 [MP19]	B207428	0.592	50.0	07/07/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207027	10.0	10.0	07/02/18
18F1479-02RE1 [MP15]	B207027	10.0	10.0	07/02/18
18F1479-03 [SB5]	B207027	10.0	10.0	07/02/18
18F1479-04 [MP1]	B207027	10.0	10.0	07/02/18
18F1479-05 [SB44]	B207027	10.0	10.0	07/02/18
18F1479-06 [SB15]	B207027	10.0	10.0	07/02/18
18F1479-07 [MP17]	B207027	10.1	10.0	07/02/18
18F1479-08 [MP19]	B207027	10.0	10.0	07/02/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-02 [MP15]	B206966	10.4	10.0	06/29/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207028	10.0	10.0	07/02/18
18F1479-03 [SB5]	B207028	10.0	10.0	07/02/18
18F1479-04 [MP1]	B207028	10.0	10.0	07/02/18
18F1479-05 [SB44]	B207028	10.0	10.0	07/02/18
18F1479-06 [SB15]	B207028	10.0	10.0	07/02/18
18F1479-07 [MP17]	B207028	10.1	10.0	07/02/18
18F1479-08 [MP19]	B207028	10.0	10.0	07/02/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-02 [MP15]	B206967	30.6	1.00	06/29/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207030	30.0	1.00	07/02/18
18F1479-03 [SB5]	B207030	30.0	1.00	07/02/18
18F1479-04 [MP1]	B207030	30.0	1.00	07/02/18
18F1479-05 [SB44]	B207030	30.0	1.00	07/02/18
18F1479-06 [SB15]	B207030	30.1	1.00	07/02/18
18F1479-07 [MP17]	B207030	30.0	1.00	07/02/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-08 [MP19]	B207030	30.1	1.00	07/02/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207020	20.1	5.00	07/02/18
18F1479-02 [MP15]	B207020	20.0	5.00	07/02/18
18F1479-03 [SB5]	B207020	20.0	5.00	07/02/18
18F1479-04 [MP1]	B207020	20.1	5.00	07/02/18
18F1479-05 [SB44]	B207020	20.0	5.00	07/02/18
18F1479-06 [SB15]	B207020	20.0	5.00	07/02/18
18F1479-07 [MP17]	B207020	20.1	5.00	07/02/18
18F1479-08 [MP19]	B207020	20.0	5.00	07/02/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-02 [MP15]	B207076	8.23	10.0	07/02/18
18F1479-03 [SB5]	B207076	5.96	10.0	07/02/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207160	8.66	10.0	07/03/18
18F1479-04 [MP1]	B207160	7.67	10.0	07/03/18
18F1479-05 [SB44]	B207160	9.98	10.0	07/03/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-07 [MP17]	B207266	9.22	10.0	07/05/18
18F1479-08 [MP19]	B207266	3.03	10.0	07/05/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-06 [SB15]	B207268	12.4	10.0	07/03/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-02 [MP15]	B206968	30.6	1.00	06/29/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207031	30.0	1.00	07/02/18
18F1479-03 [SB5]	B207031	30.0	1.00	07/02/18
18F1479-04 [MP1]	B207031	30.0	1.00	07/02/18
18F1479-05 [SB44]	B207031	30.0	1.00	07/02/18
18F1479-06 [SB15]	B207031	30.1	1.00	07/02/18
18F1479-07 [MP17]	B207031	30.0	1.00	07/02/18
18F1479-08 [MP19]	B207031	30.1	1.00	07/02/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207228	25.7	250	07/05/18
18F1479-02 [MP15]	B207228	25.1	250	07/05/18
18F1479-03 [SB5]	B207228	25.2	250	07/05/18
18F1479-04 [MP1]	B207228	25.4	250	07/05/18
18F1479-05 [SB44]	B207228	25.5	250	07/05/18
18F1479-06 [SB15]	B207228	25.5	250	07/05/18
18F1479-07 [MP17]	B207228	25.5	250	07/05/18
18F1479-08 [MP19]	B207228	25.5	250	07/05/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18F1479-01 [SB14]	B207232	25.7	250	07/05/18
18F1479-02 [MP15]	B207232	25.1	250	07/05/18
18F1479-03 [SB5]	B207232	25.2	250	07/05/18
18F1479-04 [MP1]	B207232	25.4	250	07/05/18
18F1479-05 [SB44]	B207232	25.5	250	07/05/18
18F1479-06 [SB15]	B207232	25.5	250	07/05/18
18F1479-07 [MP17]	B207232	25.5	250	07/05/18
18F1479-08 [MP19]	B207232	25.5	250	07/05/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18F1479-01 [SB14]	B206982	20.0	06/29/18
18F1479-02 [MP15]	B206982	20.0	06/29/18
18F1479-03 [SB5]	B206982	20.0	06/29/18
18F1479-04 [MP1]	B206982	20.0	06/29/18
18F1479-05 [SB44]	B206982	20.0	06/29/18
18F1479-06 [SB15]	B206982	20.0	06/29/18
18F1479-07 [MP17]	B206982	20.0	06/29/18
18F1479-08 [MP19]	B206982	20.0	06/29/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207076 - SW-846 5035

Blank (B207076-BLK1)

Prepared & Analyzed: 07/02/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207076 - SW-846 5035

Blank (B207076-BLK1)

Prepared & Analyzed: 07/02/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0480		mg/Kg wet	0.0500		96.0	70-130			
Surrogate: Toluene-d8	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0481		mg/Kg wet	0.0500		96.2	70-130			

LCS (B207076-BS1)

Prepared & Analyzed: 07/02/18

Acetone	0.187	0.10	mg/Kg wet	0.200		93.4	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130			
Benzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromoform	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Bromomethane	0.0125	0.010	mg/Kg wet	0.0200		62.3	40-160		L-14, V-34	†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.200		98.6	40-160			†
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
sec-Butylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130			
tert-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Carbon Disulfide	0.0192	0.0060	mg/Kg wet	0.0200		95.9	70-130			
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Chloroethane	0.0175	0.010	mg/Kg wet	0.0200		87.4	70-130			
Chloroform	0.0209	0.0040	mg/Kg wet	0.0200		104	70-130			
Chloromethane	0.0175	0.010	mg/Kg wet	0.0200		87.4	40-160			†
2-Chlorotoluene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130			
4-Chlorotoluene	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,2-Dibromoethane (EDB)	0.0188	0.0010	mg/Kg wet	0.0200		94.1	70-130			
Dibromomethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130			
1,3-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,4-Dichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207076 - SW-846 5035										
LCS (B207076-BS1)										
Prepared & Analyzed: 07/02/18										
Dichlorodifluoromethane (Freon 12)	0.0163	0.010	mg/Kg wet	0.0200		81.6	40-160			V-05 †
1,1-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
1,1-Dichloroethylene	0.0190	0.0040	mg/Kg wet	0.0200		95.1	70-130			
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130			
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,3-Dichloropropane	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130			
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
cis-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		92.2	70-130			
trans-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130			
Diethyl Ether	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130			
Diisopropyl Ether (DIPE)	0.0188	0.0010	mg/Kg wet	0.0200		94.1	70-130			
1,4-Dioxane	0.216	0.10	mg/Kg wet	0.200		108	40-160			V-16, V-20 †
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130			
Hexachlorobutadiene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
2-Hexanone (MBK)	0.193	0.020	mg/Kg wet	0.200		96.6	40-160			†
Isopropylbenzene (Cumene)	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
p-Isopropyltoluene (p-Cymene)	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0209	0.0040	mg/Kg wet	0.0200		105	70-130			
Methylene Chloride	0.0182	0.010	mg/Kg wet	0.0200		90.9	70-130			
4-Methyl-2-pentanone (MIBK)	0.189	0.020	mg/Kg wet	0.200		94.3	40-160			†
Naphthalene	0.0174	0.0040	mg/Kg wet	0.0200		86.8	70-130			
n-Propylbenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8	70-130			
Styrene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
1,1,1,2-Tetrachloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130			
1,1,1,2,2-Tetrachloroethane	0.0175	0.0010	mg/Kg wet	0.0200		87.7	70-130			
Tetrachloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		89.9	70-130			
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,2,3-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,1,1-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0167	0.010	mg/Kg wet	0.0200		83.7	70-130			
1,2,3-Trichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130			
1,3,5-Trimethylbenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
Vinyl Chloride	0.0175	0.010	mg/Kg wet	0.0200		87.7	70-130			
m+p Xylene	0.0341	0.0040	mg/Kg wet	0.0400		85.1	70-130			
o-Xylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0484		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: Toluene-d8	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0516		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207076 - SW-846 5035										
LCS Dup (B207076-BSD1)										
Prepared & Analyzed: 07/02/18										
Acetone	0.186	0.10	mg/Kg wet	0.200		93.2	40-160	0.245	20	†
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	6.90	20	
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.25	20	
Bromobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	2.80	20	
Bromochloromethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	3.25	20	
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	1.50	20	
Bromoform	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	0.563	20	
Bromomethane	0.0130	0.010	mg/Kg wet	0.0200		65.0	40-160	4.17	20	L-14, V-34 †
2-Butanone (MEK)	0.210	0.040	mg/Kg wet	0.200		105	40-160	6.16	20	†
n-Butylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	1.99	20	
sec-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	2.39	20	
tert-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	0.331	20	
tert-Butyl Ethyl Ether (TBEE)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	3.16	20	
Carbon Disulfide	0.0190	0.0060	mg/Kg wet	0.0200		94.8	70-130	1.13	20	
Carbon Tetrachloride	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.83	20	
Chlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	0.0112	20	
Chlorodibromomethane	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	2.91	20	
Chloroethane	0.0185	0.010	mg/Kg wet	0.0200		92.4	70-130	5.58	20	
Chloroform	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130	3.50	20	
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.7	40-160	2.63	20	†
2-Chlorotoluene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130	0.415	20	
4-Chlorotoluene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	1.73	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	1.23	20	
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130	4.70	20	
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.44	20	
1,2-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130	0.739	20	
1,3-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	0.281	20	
1,4-Dichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	1.34	20	
Dichlorodifluoromethane (Freon 12)	0.0161	0.010	mg/Kg wet	0.0200		80.4	40-160	1.48	20	V-05 †
1,1-Dichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.65	20	
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	5.88	20	
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.4	70-130	2.38	20	
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.18	20	
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.544	20	
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.726	20	
1,3-Dichloropropane	0.0189	0.0010	mg/Kg wet	0.0200		94.6	70-130	0.538	20	
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.13	20	
1,1-Dichloropropene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.65	20	
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.6	70-130	2.61	20	
trans-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		97.9	70-130	0.965	20	
Diethyl Ether	0.0192	0.010	mg/Kg wet	0.0200		96.1	70-130	4.76	20	
Diisopropyl Ether (DIPE)	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130	3.27	20	
1,4-Dioxane	0.204	0.10	mg/Kg wet	0.200		102	40-160	5.29	20	V-16, V-20 †
Ethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	1.09	20	
Hexachlorobutadiene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	0.399	20	
2-Hexanone (MBK)	0.193	0.020	mg/Kg wet	0.200		96.7	40-160	0.159	20	†
Isopropylbenzene (Cumene)	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	0.633	20	
p-Isopropyltoluene (p-Cymene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.16	20	
Methyl tert-Butyl Ether (MTBE)	0.0211	0.0040	mg/Kg wet	0.0200		105	70-130	0.676	20	
Methylene Chloride	0.0184	0.010	mg/Kg wet	0.0200		91.8	70-130	0.985	20	
4-Methyl-2-pentanone (MIBK)	0.193	0.020	mg/Kg wet	0.200		96.5	40-160	2.27	20	†
Naphthalene	0.0177	0.0040	mg/Kg wet	0.0200		88.5	70-130	1.94	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207076 - SW-846 5035

LCS Dup (B207076-BSD1)

Prepared & Analyzed: 07/02/18

n-Propylbenzene	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130	0.597	20	
Styrene	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130	0.706	20	
1,1,1,2-Tetrachloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	4.88	20	
1,1,2,2-Tetrachloroethane	0.0180	0.0010	mg/Kg wet	0.0200		90.2	70-130	2.78	20	
Tetrachloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.899	20	
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130	0.222	20	
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	2.64	20	
1,2,3-Trichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	9.05	20	
1,2,4-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	3.00	20	
1,1,1-Trichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	6.05	20	
1,1,2-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.65	20	
Trichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.56	20	
Trichlorofluoromethane (Freon 11)	0.0179	0.010	mg/Kg wet	0.0200		89.7	70-130	6.93	20	
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	2.87	20	
1,2,4-Trimethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130	2.59	20	
1,3,5-Trimethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	0.743	20	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		93.1	70-130	5.96	20	
m+p Xylene	0.0338	0.0040	mg/Kg wet	0.0400		84.6	70-130	0.636	20	
o-Xylene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	0.414	20	
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.8	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0494		mg/Kg wet	0.0500		98.8	70-130			

Batch B207160 - SW-846 5035

Blank (B207160-BLK1)

Prepared & Analyzed: 07/03/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207160 - SW-846 5035										
Blank (B207160-BLK1)										
Prepared & Analyzed: 07/03/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0471		mg/Kg wet	0.0500		94.3	70-130			
Surrogate: Toluene-d8	0.0510		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0478		mg/Kg wet	0.0500		95.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207160 - SW-846 5035										
LCS (B207160-BS1)										
Prepared & Analyzed: 07/03/18										
Acetone	0.206	0.10	mg/Kg wet	0.200		103	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0223	0.0010	mg/Kg wet	0.0200		111	70-130			
Benzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Bromobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
Bromochloromethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromoform	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromomethane	0.0137	0.010	mg/Kg wet	0.0200		68.6	40-160			L-14, V-34 †
2-Butanone (MEK)	0.214	0.040	mg/Kg wet	0.200		107	40-160			†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
sec-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
tert-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
Carbon Disulfide	0.0213	0.0060	mg/Kg wet	0.0200		107	70-130			
Carbon Tetrachloride	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Chlorodibromomethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130			
Chloromethane	0.0187	0.010	mg/Kg wet	0.0200		93.6	40-160			†
2-Chlorotoluene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
4-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130			
Dibromomethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0169	0.010	mg/Kg wet	0.0200		84.3	40-160			V-05 †
1,1-Dichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
1,1-Dichloroethylene	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
cis-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,3-Dichloropropane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloropropene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
cis-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
trans-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Diethyl Ether	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.224	0.10	mg/Kg wet	0.200		112	40-160			V-16, V-20 †
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	40-160			†
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
p-Isopropyltoluene (p-Cymene)	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0219	0.0040	mg/Kg wet	0.0200		109	70-130			
Methylene Chloride	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	40-160			†
Naphthalene	0.0203	0.0040	mg/Kg wet	0.0200		101	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207160 - SW-846 5035

LCS (B207160-BS1)

Prepared & Analyzed: 07/03/18

n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Styrene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2,2-Tetrachloroethane	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130			
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
Toluene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2,3-Trichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1-Trichloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichlorofluoromethane (Freon 11)	0.0193	0.010	mg/Kg wet	0.0200		96.3	70-130			
1,2,3-Trichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
1,2,4-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3,5-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Vinyl Chloride	0.0193	0.010	mg/Kg wet	0.0200		96.6	70-130			
m+p Xylene	0.0369	0.0040	mg/Kg wet	0.0400		92.4	70-130			
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0473		mg/Kg wet	0.0500		94.7	70-130			
Surrogate: Toluene-d8	0.0506		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0490		mg/Kg wet	0.0500		98.1	70-130			

LCS Dup (B207160-BS1)

Prepared & Analyzed: 07/03/18

Acetone	0.194	0.10	mg/Kg wet	0.200		96.8	40-160	6.15	20	†
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	4.16	20	
Benzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.86	20	
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.58	20	
Bromochloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	5.66	20	
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.413	20	
Bromoform	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.169	20	
Bromomethane	0.0139	0.010	mg/Kg wet	0.0200		69.7	40-160	1.46	20	L-14, V-34 †
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	40-160	1.07	20	†
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.59	20	
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	3.39	20	
tert-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.86	20	
tert-Butyl Ethyl Ether (TBEE)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	2.14	20	
Carbon Disulfide	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130	5.31	20	
Carbon Tetrachloride	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	2.33	20	
Chlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	2.57	20	
Chlorodibromomethane	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	4.81	20	
Chloroethane	0.0188	0.010	mg/Kg wet	0.0200		94.0	70-130	0.202	20	
Chloroform	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130	2.35	20	
Chloromethane	0.0185	0.010	mg/Kg wet	0.0200		92.5	40-160	1.15	20	†
2-Chlorotoluene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	2.63	20	
4-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	3.43	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	0.686	20	
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	4.35	20	
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	8.59	20	
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	1.45	20	
1,3-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	0.510	20	
1,4-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	2.33	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207160 - SW-846 5035										
LCS Dup (B207160-BSD1)										
Prepared & Analyzed: 07/03/18										
Dichlorodifluoromethane (Freon 12)	0.0166	0.010	mg/Kg wet	0.0200		83.2	40-160	1.28	20	V-05 †
1,1-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	1.98	20	
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	2.67	20	
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	5.65	20	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.763	20	
trans-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.65	20	
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	5.57	20	
1,3-Dichloropropane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	1.71	20	
2,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.72	20	
1,1-Dichloropropene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.83	20	
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130	4.97	20	
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	4.81	20	
Diethyl Ether	0.0202	0.010	mg/Kg wet	0.0200		101	70-130	3.48	20	
Diisopropyl Ether (DIPE)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	2.32	20	
1,4-Dioxane	0.202	0.10	mg/Kg wet	0.200		101	40-160	10.5	20	V-16, V-20 †
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.268	20	
Hexachlorobutadiene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.76	20	
2-Hexanone (MBK)	0.221	0.020	mg/Kg wet	0.200		110	40-160	1.94	20	†
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.236	20	
p-Isopropyltoluene (p-Cymene)	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.821	20	
Methyl tert-Butyl Ether (MTBE)	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130	2.17	20	
Methylene Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.8	70-130	5.47	20	
4-Methyl-2-pentanone (MIBK)	0.211	0.020	mg/Kg wet	0.200		105	40-160	1.21	20	†
Naphthalene	0.0209	0.0040	mg/Kg wet	0.0200		105	70-130	3.10	20	
n-Propylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	2.01	20	
Styrene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130	2.06	20	
1,1,1,2-Tetrachloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.105	20	
1,1,2,2-Tetrachloroethane	0.0196	0.0010	mg/Kg wet	0.0200		98.0	70-130	1.04	20	
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.59	20	
Tetrahydrofuran	0.0188	0.010	mg/Kg wet	0.0200		94.0	70-130	11.6	20	
Toluene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.43	20	
1,2,3-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	3.55	20	
1,2,4-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.77	20	
1,1,1-Trichloroethane	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130	0.665	20	
1,1,2-Trichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	4.97	20	
Trichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.45	20	
Trichlorofluoromethane (Freon 11)	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130	2.60	20	
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	13.3	20	
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	0.370	20	
1,3,5-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	1.80	20	
Vinyl Chloride	0.0196	0.010	mg/Kg wet	0.0200		98.0	70-130	1.44	20	
m+p Xylene	0.0365	0.0040	mg/Kg wet	0.0400		91.2	70-130	1.24	20	
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130	0.704	20	
Surrogate: 1,2-Dichloroethane-d4	0.0472		mg/Kg wet	0.0500		94.3	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207266 - SW-846 5035

Blank (B207266-BLK1)

Prepared & Analyzed: 07/05/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207266 - SW-846 5035

Blank (B207266-BLK1)

Prepared & Analyzed: 07/05/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							R-05
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.2	70-130			

LCS (B207266-BS1)

Prepared & Analyzed: 07/05/18

Acetone	0.212	0.10	mg/Kg wet	0.200		106	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0164	0.0010	mg/Kg wet	0.0200		81.9	70-130			
Benzene	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
Bromobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130			
Bromochloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
Bromodichloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Bromoform	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		57.1	40-160			L-14, R-05, V-34 †
2-Butanone (MEK)	0.211	0.040	mg/Kg wet	0.200		106	40-160			†
n-Butylbenzene	0.0164	0.0020	mg/Kg wet	0.0200		81.8	70-130			
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
tert-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0179	0.0010	mg/Kg wet	0.0200		89.7	70-130			
Carbon Disulfide	0.0196	0.0060	mg/Kg wet	0.0200		97.8	70-130			
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Chlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
Chloroethane	0.0184	0.010	mg/Kg wet	0.0200		92.0	70-130			
Chloroform	0.0182	0.0040	mg/Kg wet	0.0200		91.0	70-130			
Chloromethane	0.0178	0.010	mg/Kg wet	0.0200		89.0	40-160			†
2-Chlorotoluene	0.0170	0.0020	mg/Kg wet	0.0200		85.1	70-130			
4-Chlorotoluene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		82.0	70-130			
1,2-Dibromoethane (EDB)	0.0185	0.0010	mg/Kg wet	0.0200		92.3	70-130			
Dibromomethane	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,2-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130			
1,3-Dichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
1,4-Dichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207266 - SW-846 5035										
LCS (B207266-BS1)										
Prepared & Analyzed: 07/05/18										
Dichlorodifluoromethane (Freon 12)	0.0118	0.010	mg/Kg wet	0.0200		58.8	40-160			L-14, V-34 †
1,1-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
1,2-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
1,1-Dichloroethylene	0.0192	0.0040	mg/Kg wet	0.0200		96.2	70-130			
cis-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
1,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,3-Dichloropropane	0.0174	0.0010	mg/Kg wet	0.0200		87.0	70-130			
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
1,1-Dichloropropene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
cis-1,3-Dichloropropene	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130			
trans-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.8	70-130			
Diethyl Ether	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130			
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130			
1,4-Dioxane	0.170	0.10	mg/Kg wet	0.200		85.2	40-160			V-16 †
Ethylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.6	70-130			
Hexachlorobutadiene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
2-Hexanone (MBK)	0.206	0.020	mg/Kg wet	0.200		103	40-160			†
Isopropylbenzene (Cumene)	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
p-Isopropyltoluene (p-Cymene)	0.0171	0.0020	mg/Kg wet	0.0200		85.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0182	0.0040	mg/Kg wet	0.0200		91.1	70-130			
Methylene Chloride	0.0185	0.010	mg/Kg wet	0.0200		92.6	70-130			
4-Methyl-2-pentanone (MIBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160			†
Naphthalene	0.0163	0.0040	mg/Kg wet	0.0200		81.7	70-130			
n-Propylbenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
Styrene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,1,1,2-Tetrachloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,1,1,2,2-Tetrachloroethane	0.0159	0.0010	mg/Kg wet	0.0200		79.6	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130			V-16
Toluene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130			
1,2,3-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,2,4-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
1,1,1-Trichloroethane	0.0170	0.0020	mg/Kg wet	0.0200		84.8	70-130			
1,1,2-Trichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
Trichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0151	0.010	mg/Kg wet	0.0200		75.6	70-130			R-05
1,2,3-Trichloropropane	0.0169	0.0020	mg/Kg wet	0.0200		84.4	70-130			
1,2,4-Trimethylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130			
1,3,5-Trimethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130			
Vinyl Chloride	0.0168	0.010	mg/Kg wet	0.0200		83.9	70-130			
m+p Xylene	0.0342	0.0040	mg/Kg wet	0.0400		85.5	70-130			
o-Xylene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0490		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0488		mg/Kg wet	0.0500		97.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207266 - SW-846 5035										
LCS Dup (B207266-BSD1)										
Prepared & Analyzed: 07/05/18										
Acetone	0.237	0.10	mg/Kg wet	0.200		118	40-160	10.8	20	†
tert-Amyl Methyl Ether (TAME)	0.0185	0.0010	mg/Kg wet	0.0200		92.3	70-130	11.9	20	
Benzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130	11.2	20	
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	14.7	20	
Bromochloromethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	13.9	20	
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	6.76	20	
Bromoform	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	17.5	20	
Bromomethane	0.0143	0.010	mg/Kg wet	0.0200		71.6	40-160	22.5 *	20	R-05, V-34 †
2-Butanone (MEK)	0.254	0.040	mg/Kg wet	0.200		127	40-160	18.4	20	†
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	11.5	20	
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	2.43	20	
tert-Butylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130	10.7	20	
tert-Butyl Ethyl Ether (TBEE)	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	14.3	20	
Carbon Disulfide	0.0221	0.0060	mg/Kg wet	0.0200		111	70-130	12.3	20	
Carbon Tetrachloride	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	5.66	20	
Chlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	13.5	20	
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	9.99	20	
Chloroethane	0.0206	0.010	mg/Kg wet	0.0200		103	70-130	11.3	20	
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130	12.6	20	
Chloromethane	0.0204	0.010	mg/Kg wet	0.0200		102	40-160	13.4	20	†
2-Chlorotoluene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	9.83	20	
4-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	15.1	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	17.5	20	
1,2-Dibromoethane (EDB)	0.0199	0.0010	mg/Kg wet	0.0200		99.4	70-130	7.41	20	
Dibromomethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	10.1	20	
1,2-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	8.12	20	
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130	10.8	20	
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	10.1	20	
Dichlorodifluoromethane (Freon 12)	0.0130	0.010	mg/Kg wet	0.0200		64.8	40-160	9.71	20	L-14, V-34 †
1,1-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	12.3	20	
1,2-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	12.7	20	
1,1-Dichloroethylene	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130	13.3	20	
cis-1,2-Dichloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	14.3	20	
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	11.7	20	
1,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	14.1	20	
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130	12.2	20	
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	12.7	20	
1,1-Dichloropropene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	10.4	20	
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	11.8	20	
trans-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	6.63	20	
Diethyl Ether	0.0215	0.010	mg/Kg wet	0.0200		107	70-130	12.7	20	
Diisopropyl Ether (DIPE)	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	12.1	20	
1,4-Dioxane	0.198	0.10	mg/Kg wet	0.200		99.0	40-160	15.0	20	V-16 †
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	15.1	20	
Hexachlorobutadiene	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	8.24	20	
2-Hexanone (MBK)	0.241	0.020	mg/Kg wet	0.200		120	40-160	15.9	20	†
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	12.2	20	
p-Isopropyltoluene (p-Cymene)	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	10.8	20	
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130	11.8	20	
Methylene Chloride	0.0208	0.010	mg/Kg wet	0.0200		104	70-130	11.4	20	
4-Methyl-2-pentanone (MIBK)	0.241	0.020	mg/Kg wet	0.200		120	40-160	13.5	20	†
Naphthalene	0.0189	0.0040	mg/Kg wet	0.0200		94.6	70-130	14.6	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207266 - SW-846 5035										
LCS Dup (B207266-BSD1)										
Prepared & Analyzed: 07/05/18										
n-Propylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	12.1	20	
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	13.3	20	
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	9.45	20	
1,1,2,2-Tetrachloroethane	0.0188	0.0010	mg/Kg wet	0.0200		94.0	70-130	16.6	20	
Tetrachloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	10.4	20	
Tetrahydrofuran	0.0203	0.010	mg/Kg wet	0.0200		102	70-130	7.24	20	V-16
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	11.9	20	
1,2,3-Trichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	6.57	20	
1,2,4-Trichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	6.10	20	
1,1,1-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130	12.6	20	
1,1,2-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	8.18	20	
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	9.13	20	
Trichlorofluoromethane (Freon 11)	0.0187	0.010	mg/Kg wet	0.0200		93.6	70-130	21.3 *	20	R-05
1,2,3-Trichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	15.7	20	
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	14.5	20	
1,3,5-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	13.7	20	
Vinyl Chloride	0.0187	0.010	mg/Kg wet	0.0200		93.6	70-130	10.9	20	
m+p Xylene	0.0389	0.0040	mg/Kg wet	0.0400		97.2	70-130	12.8	20	
o-Xylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	16.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.0509		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0499		mg/Kg wet	0.0500		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			
Batch B207268 - SW-846 5035										
Blank (B207268-BLK1)										
Prepared & Analyzed: 07/05/18										
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207268 - SW-846 5035										
Blank (B207268-BLK1)										
Prepared & Analyzed: 07/05/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0507		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207268 - SW-846 5035										
LCS (B207268-BS1)										
Prepared & Analyzed: 07/05/18										
Acetone	0.203	0.10	mg/Kg wet	0.200		101	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Benzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Bromodichloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromoform	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
Bromomethane	0.0131	0.010	mg/Kg wet	0.0200		65.4	40-160			L-14, V-34 †
2-Butanone (MEK)	0.214	0.040	mg/Kg wet	0.200		107	40-160			†
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
sec-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
tert-Butylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Carbon Disulfide	0.0200	0.0060	mg/Kg wet	0.0200		99.8	70-130			
Carbon Tetrachloride	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130			
Chlorodibromomethane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Chloroethane	0.0174	0.010	mg/Kg wet	0.0200		86.9	70-130			
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Chloromethane	0.0176	0.010	mg/Kg wet	0.0200		88.1	40-160			†
2-Chlorotoluene	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130			
4-Chlorotoluene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromoethane (EDB)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
Dibromomethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130			
1,3-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
1,4-Dichlorobenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0150	0.010	mg/Kg wet	0.0200		75.2	40-160			V-05 †
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloroethane	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,1-Dichloroethylene	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130			
cis-1,2-Dichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,3-Dichloropropane	0.0192	0.0010	mg/Kg wet	0.0200		95.8	70-130			
2,2-Dichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.7	70-130			
trans-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
Diethyl Ether	0.0200	0.010	mg/Kg wet	0.0200		100	70-130			
Diisopropyl Ether (DIPE)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
1,4-Dioxane	0.223	0.10	mg/Kg wet	0.200		111	40-160			V-16 †
Ethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
Hexachlorobutadiene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
2-Hexanone (MBK)	0.207	0.020	mg/Kg wet	0.200		103	40-160			†
Isopropylbenzene (Cumene)	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
p-Isopropyltoluene (p-Cymene)	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0215	0.0040	mg/Kg wet	0.0200		107	70-130			
Methylene Chloride	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		99.2	40-160			†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207268 - SW-846 5035

LCS (B207268-BS1)

Prepared & Analyzed: 07/05/18

n-Propylbenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130			
Styrene	0.0169	0.0020	mg/Kg wet	0.0200		84.6	70-130			
1,1,1,2-Tetrachloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,1,2,2-Tetrachloroethane	0.0184	0.0010	mg/Kg wet	0.0200		92.2	70-130			
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Tetrahydrofuran	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,2,3-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130			
1,2,3-Trichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
1,2,4-Trimethylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
1,3,5-Trimethylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130			
Vinyl Chloride	0.0182	0.010	mg/Kg wet	0.0200		91.2	70-130			
m+p Xylene	0.0337	0.0040	mg/Kg wet	0.0400		84.1	70-130			
o-Xylene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0492		mg/Kg wet	0.0500		98.5	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.1	70-130			

LCS Dup (B207268-BS1)

Prepared & Analyzed: 07/05/18

Acetone	0.220	0.10	mg/Kg wet	0.200		110	40-160	8.17	20	†
tert-Amyl Methyl Ether (TAME)	0.0221	0.0010	mg/Kg wet	0.0200		111	70-130	5.14	20	
Benzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.0459	20	
Bromobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	12.9	20	
Bromochloromethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	1.06	20	
Bromodichloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	3.20	20	
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	11.6	20	
Bromomethane	0.0137	0.010	mg/Kg wet	0.0200		68.6	40-160	4.84	20	L-14, V-34 †
2-Butanone (MEK)	0.234	0.040	mg/Kg wet	0.200		117	40-160	9.03	20	†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	7.17	20	
sec-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130	8.28	20	
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	8.37	20	
tert-Butyl Ethyl Ether (TBEE)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	3.96	20	
Carbon Disulfide	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130	0.907	20	
Carbon Tetrachloride	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.68	20	
Chlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	6.73	20	
Chlorodibromomethane	0.0236	0.0010	mg/Kg wet	0.0200		118	70-130	13.5	20	
Chloroethane	0.0191	0.010	mg/Kg wet	0.0200		95.5	70-130	9.40	20	
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130	0.215	20	
Chloromethane	0.0176	0.010	mg/Kg wet	0.0200		88.1	40-160	0.0340	20	†
2-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	11.0	20	
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	12.9	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	5.27	20	
1,2-Dibromoethane (EDB)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	6.30	20	
Dibromomethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.44	20	
1,2-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	7.25	20	
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	11.2	20	
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	8.12	20	

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207268 - SW-846 5035										
LCS Dup (B207268-BSD1)										
Prepared & Analyzed: 07/05/18										
Dichlorodifluoromethane (Freon 12)	0.0151	0.010	mg/Kg wet	0.0200		75.6	40-160	0.490	20	V-05 †
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.119	20	
1,2-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	6.40	20	
1,1-Dichloroethylene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130	0.853	20	
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	0.552	20	
trans-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.0491	20	
1,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.65	20	
1,3-Dichloropropane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	10.7	20	
2,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	0.724	20	
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.11	20	
cis-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		98.1	70-130	5.61	20	
trans-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		103	70-130	4.77	20	
Diethyl Ether	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	1.08	20	
Diisopropyl Ether (DIPE)	0.0199	0.0010	mg/Kg wet	0.0200		99.6	70-130	2.96	20	
1,4-Dioxane	0.240	0.10	mg/Kg wet	0.200		120	40-160	7.43	20	V-16 †
Ethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	7.25	20	
Hexachlorobutadiene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	6.94	20	
2-Hexanone (MBK)	0.235	0.020	mg/Kg wet	0.200		117	40-160	12.6	20	†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	12.2	20	
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	12.5	20	
Methyl tert-Butyl Ether (MTBE)	0.0217	0.0040	mg/Kg wet	0.0200		108	70-130	1.04	20	
Methylene Chloride	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130	2.28	20	
4-Methyl-2-pentanone (MIBK)	0.226	0.020	mg/Kg wet	0.200		113	40-160	12.8	20	†
Naphthalene	0.0195	0.0040	mg/Kg wet	0.0200		97.7	70-130	2.37	20	
n-Propylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	10.1	20	
Styrene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	10.5	20	
1,1,1,2-Tetrachloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	11.9	20	
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	14.5	20	
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.82	20	
Tetrahydrofuran	0.0196	0.010	mg/Kg wet	0.0200		98.1	70-130	4.47	20	
Toluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	5.00	20	
1,2,3-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	5.57	20	
1,2,4-Trichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	6.63	20	
1,1,1-Trichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	3.12	20	
1,1,2-Trichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	13.3	20	
Trichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	7.02	20	
Trichlorofluoromethane (Freon 11)	0.0186	0.010	mg/Kg wet	0.0200		92.9	70-130	3.04	20	
1,2,3-Trichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	13.3	20	
1,2,4-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	8.02	20	
1,3,5-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	10.4	20	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		93.2	70-130	2.20	20	
m+p Xylene	0.0360	0.0040	mg/Kg wet	0.0400		89.9	70-130	6.64	20	
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.0491		mg/Kg wet	0.0500		98.3	70-130			
Surrogate: Toluene-d8	0.0513		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0517		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206968 - SW-846 3546										
Blank (B206968-BLK1)										
Prepared: 06/29/18 Analyzed: 06/30/18										
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-20, V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-34
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B206968 - SW-846 3546

Blank (B206968-BLK1)

Prepared: 06/29/18 Analyzed: 06/30/18

Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	3.66		mg/Kg wet	6.67		54.9	30-130			
Surrogate: Phenol-d6	3.83		mg/Kg wet	6.67		57.4	30-130			
Surrogate: Nitrobenzene-d5	1.81		mg/Kg wet	3.33		54.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.63		mg/Kg wet	3.33		49.0	30-130			
Surrogate: 2,4,6-Tribromophenol	3.32		mg/Kg wet	6.67		49.9	30-130			
Surrogate: p-Terphenyl-d14	2.16		mg/Kg wet	3.33		64.9	30-130			

LCS (B206968-BS1)

Prepared: 06/29/18 Analyzed: 06/30/18

Acenaphthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140			
Acetophenone	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			
Aniline	0.941	0.34	mg/Kg wet	1.67		56.4	40-140			V-04
Anthracene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Benzo(a)anthracene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140			
Benzo(a)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Benzo(b)fluoranthene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(g,h,i)perylene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(k)fluoranthene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140			
Bis(2-chloroethoxy)methane	1.10	0.34	mg/Kg wet	1.67		66.3	40-140			
Bis(2-chloroethyl)ether	0.956	0.34	mg/Kg wet	1.67		57.4	40-140			
Bis(2-chloroisopropyl)ether	1.21	0.34	mg/Kg wet	1.67		72.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.09	0.34	mg/Kg wet	1.67		65.4	40-140			
4-Bromophenylphenylether	1.01	0.34	mg/Kg wet	1.67		60.5	40-140			
Butylbenzylphthalate	1.09	0.34	mg/Kg wet	1.67		65.6	40-140			
4-Chloroaniline	0.778	0.66	mg/Kg wet	1.67		46.7	15-140			V-06, V-34 †
2-Chloronaphthalene	0.889	0.34	mg/Kg wet	1.67		53.3	40-140			
2-Chlorophenol	0.972	0.34	mg/Kg wet	1.67		58.3	30-130			
Chrysene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140			
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140			
Dibenzofuran	1.06	0.34	mg/Kg wet	1.67		63.8	40-140			
Di-n-butylphthalate	1.09	0.34	mg/Kg wet	1.67		65.4	40-140			
1,2-Dichlorobenzene	0.879	0.34	mg/Kg wet	1.67		52.8	40-140			
1,3-Dichlorobenzene	0.846	0.34	mg/Kg wet	1.67		50.8	40-140			
1,4-Dichlorobenzene	0.847	0.34	mg/Kg wet	1.67		50.8	40-140			
3,3-Dichlorobenzidine	0.808	0.17	mg/Kg wet	1.67		48.5	40-140			V-34
2,4-Dichlorophenol	0.982	0.34	mg/Kg wet	1.67		58.9	30-130			
Diethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.3	40-140			
2,4-Dimethylphenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Dimethylphthalate	1.07	0.34	mg/Kg wet	1.67		64.2	40-140			
2,4-Dinitrophenol	0.543	0.66	mg/Kg wet	1.67		32.6	15-140			†
2,4-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140			
2,6-Dinitrotoluene	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Di-n-octylphthalate	0.958	0.34	mg/Kg wet	1.67		57.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206968 - SW-846 3546										
LCS (B206968-BS1)										
					Prepared: 06/29/18 Analyzed: 06/30/18					
Hexachlorobenzene	1.02	0.34	mg/Kg wet	1.67		61.0	40-140			
Hexachlorobutadiene	0.885	0.34	mg/Kg wet	1.67		53.1	40-140			
Hexachloroethane	0.892	0.34	mg/Kg wet	1.67		53.5	40-140			
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140			
Isophorone	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
2-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.7	30-130			
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130			
Naphthalene	0.971	0.17	mg/Kg wet	1.67		58.2	40-140			
Nitrobenzene	1.01	0.34	mg/Kg wet	1.67		60.6	40-140			
2-Nitrophenol	0.981	0.34	mg/Kg wet	1.67		58.9	30-130			
4-Nitrophenol	1.30	0.66	mg/Kg wet	1.67		78.1	15-140			V-06 †
Pentachlorophenol	0.640	0.34	mg/Kg wet	1.67		38.4	30-130			
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Phenol	1.05	0.34	mg/Kg wet	1.67		62.9	15-140			†
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140			
Pyridine	0.693	0.34	mg/Kg wet	1.67		41.6	30-140			†
1,2,4-Trichlorobenzene	0.892	0.34	mg/Kg wet	1.67		53.5	40-140			
2,4,5-Trichlorophenol	1.01	0.34	mg/Kg wet	1.67		60.8	30-130			
2,4,6-Trichlorophenol	0.995	0.34	mg/Kg wet	1.67		59.7	30-130			
Surrogate: 2-Fluorophenol	4.42		mg/Kg wet	6.67		66.2	30-130			
Surrogate: Phenol-d6	4.62		mg/Kg wet	6.67		69.3	30-130			
Surrogate: Nitrobenzene-d5	2.22		mg/Kg wet	3.33		66.6	30-130			
Surrogate: 2-Fluorobiphenyl	1.94		mg/Kg wet	3.33		58.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.47		mg/Kg wet	6.67		67.0	30-130			
Surrogate: p-Terphenyl-d14	2.27		mg/Kg wet	3.33		68.1	30-130			
LCS Dup (B206968-BS1)										
					Prepared: 06/29/18 Analyzed: 06/30/18					
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	9.77	30	
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	10.4	30	
Acetophenone	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	7.49	30	
Aniline	0.952	0.34	mg/Kg wet	1.67		57.1	40-140	1.23	30	V-04
Anthracene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	10.6	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	11.2	30	
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140	14.7	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	14.8	30	
Benzo(g,h,i)perylene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140	12.8	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	14.3	30	
Bis(2-chloroethoxy)methane	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	8.11	30	
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.5	40-140	10.1	30	
Bis(2-chloroisopropyl)ether	1.23	0.34	mg/Kg wet	1.67		73.9	40-140	1.72	30	
Bis(2-Ethylhexyl)phthalate	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	10.2	30	
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	12.1	30	
Butylbenzylphthalate	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	9.30	30	
4-Chloroaniline	0.863	0.66	mg/Kg wet	1.67		51.8	15-140	10.4	30	V-06, V-34 †
2-Chloronaphthalene	0.939	0.34	mg/Kg wet	1.67		56.3	40-140	5.47	30	
2-Chlorophenol	1.05	0.34	mg/Kg wet	1.67		63.0	30-130	7.68	30	
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	11.2	30	
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	12.3	30	
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.9	40-140	10.5	30	
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	9.17	30	
1,2-Dichlorobenzene	0.978	0.34	mg/Kg wet	1.67		58.7	40-140	10.7	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B206968 - SW-846 3546

LCS Dup (B206968-BSD1)

Prepared: 06/29/18 Analyzed: 06/30/18

1,3-Dichlorobenzene	0.949	0.34	mg/Kg wet	1.67		56.9	40-140	11.5	30	
1,4-Dichlorobenzene	0.957	0.34	mg/Kg wet	1.67		57.4	40-140	12.2	30	
3,3-Dichlorobenzidine	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	13.8	30	V-34
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130	11.1	30	
Diethylphthalate	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	8.90	30	
2,4-Dimethylphenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130	10.4	30	
Dimethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.6	40-140	9.50	30	
2,4-Dinitrophenol	0.531	0.66	mg/Kg wet	1.67		31.8	15-140	2.30	30	†
2,4-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	9.96	30	
2,6-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	9.34	30	
Di-n-octylphthalate	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	14.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	4.98	30	
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	10.8	30	
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	10.2	30	
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.8	40-140	12.0	30	
Hexachlorobutadiene	1.03	0.34	mg/Kg wet	1.67		62.0	40-140	15.5	30	
Hexachloroethane	0.973	0.34	mg/Kg wet	1.67		58.4	40-140	8.65	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	12.9	30	
Isophorone	1.18	0.34	mg/Kg wet	1.67		70.8	40-140	7.75	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140	11.7	30	
2-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.2	30-130	8.27	30	
3/4-Methylphenol	1.21	0.34	mg/Kg wet	1.67		72.8	30-130	7.97	30	
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	10.8	30	
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140	6.27	30	
2-Nitrophenol	1.09	0.34	mg/Kg wet	1.67		65.2	30-130	10.2	30	
4-Nitrophenol	1.37	0.66	mg/Kg wet	1.67		82.3	15-140	5.24	30	V-06 †
Pentachlorophenol	0.709	0.34	mg/Kg wet	1.67		42.5	30-130	10.2	30	
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	9.99	30	
Phenol	1.11	0.34	mg/Kg wet	1.67		66.7	15-140	5.93	30	†
Pyrene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	11.9	30	
Pyridine	0.749	0.34	mg/Kg wet	1.67		44.9	30-140	7.82	30	†
1,2,4-Trichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.5	40-140	13.9	30	
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2	30-130	11.5	30	
2,4,6-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130	10.1	30	
Surrogate: 2-Fluorophenol	4.75		mg/Kg wet	6.67		71.3	30-130			
Surrogate: Phenol-d6	4.92		mg/Kg wet	6.67		73.8	30-130			
Surrogate: Nitrobenzene-d5	2.39		mg/Kg wet	3.33		71.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.16		mg/Kg wet	3.33		64.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.02		mg/Kg wet	6.67		75.4	30-130			
Surrogate: p-Terphenyl-d14	2.58		mg/Kg wet	3.33		77.3	30-130			

Batch B207031 - SW-846 3546

Blank (B207031-BLK1)

Prepared: 07/02/18 Analyzed: 07/03/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-04
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207031 - SW-846 3546										
Blank (B207031-BLK1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-20
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-20, V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							V-34
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
Pentachlorophenol	ND	0.34	mg/Kg wet							L-04
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.23		mg/Kg wet	6.67		63.5	30-130			
Surrogate: Phenol-d6	4.41		mg/Kg wet	6.67		66.2	30-130			
Surrogate: Nitrobenzene-d5	2.12		mg/Kg wet	3.33		63.6	30-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B207031 - SW-846 3546									
Blank (B207031-BLK1)					Prepared: 07/02/18 Analyzed: 07/03/18				
Surrogate: 2-Fluorobiphenyl	1.87		mg/Kg wet	3.33		56.2 30-130			
Surrogate: 2,4,6-Tribromophenol	3.41		mg/Kg wet	6.67		51.2 30-130			
Surrogate: p-Terphenyl-d14	2.48		mg/Kg wet	3.33		74.5 30-130			
LCS (B207031-BS1)					Prepared: 07/02/18 Analyzed: 07/03/18				
Acenaphthene	0.926	0.17	mg/Kg wet	1.67		55.6 40-140			
Acenaphthylene	0.979	0.17	mg/Kg wet	1.67		58.8 40-140			
Acetophenone	0.973	0.34	mg/Kg wet	1.67		58.4 40-140			
Aniline	0.820	0.34	mg/Kg wet	1.67		49.2 40-140			V-04
Anthracene	1.07	0.17	mg/Kg wet	1.67		64.5 40-140			
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.5 40-140			
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.4 40-140			
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.7 40-140			
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.0 40-140			
Benzo(k)fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.3 40-140			
Bis(2-chloroethoxy)methane	1.03	0.34	mg/Kg wet	1.67		61.8 40-140			
Bis(2-chloroethyl)ether	0.946	0.34	mg/Kg wet	1.67		56.7 40-140			
Bis(2-chloroisopropyl)ether	1.16	0.34	mg/Kg wet	1.67		69.6 40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.07	0.34	mg/Kg wet	1.67		64.1 40-140			
4-Bromophenylphenylether	1.01	0.34	mg/Kg wet	1.67		60.8 40-140			
Butylbenzylphthalate	1.08	0.34	mg/Kg wet	1.67		65.0 40-140			
4-Chloroaniline	0.809	0.66	mg/Kg wet	1.67		48.6 15-140			V-06, V-34 †
2-Chloronaphthalene	0.891	0.34	mg/Kg wet	1.67		53.4 40-140			
2-Chlorophenol	0.928	0.34	mg/Kg wet	1.67		55.7 30-130			
Chrysene	0.978	0.17	mg/Kg wet	1.67		58.7 40-140			
Dibenz(a,h)anthracene	1.04	0.17	mg/Kg wet	1.67		62.4 40-140			
Dibenzofuran	1.02	0.34	mg/Kg wet	1.67		61.4 40-140			
Di-n-butylphthalate	1.04	0.34	mg/Kg wet	1.67		62.2 40-140			
1,2-Dichlorobenzene	0.911	0.34	mg/Kg wet	1.67		54.7 40-140			
1,3-Dichlorobenzene	0.882	0.34	mg/Kg wet	1.67		52.9 40-140			
1,4-Dichlorobenzene	0.889	0.34	mg/Kg wet	1.67		53.3 40-140			
3,3-Dichlorobenzidine	0.779	0.17	mg/Kg wet	1.67		46.8 40-140			V-34
2,4-Dichlorophenol	0.930	0.34	mg/Kg wet	1.67		55.8 30-130			
Diethylphthalate	1.00	0.34	mg/Kg wet	1.67		60.3 40-140			
2,4-Dimethylphenol	1.09	0.34	mg/Kg wet	1.67		65.2 30-130			
Dimethylphthalate	1.02	0.34	mg/Kg wet	1.67		61.2 40-140			
2,4-Dinitrophenol	0.360	0.66	mg/Kg wet	1.67		21.6 15-140			†
2,4-Dinitrotoluene	1.01	0.34	mg/Kg wet	1.67		60.7 40-140			
2,6-Dinitrotoluene	1.05	0.34	mg/Kg wet	1.67		62.8 40-140			
Di-n-octylphthalate	0.981	0.34	mg/Kg wet	1.67		58.9 40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.14	0.34	mg/Kg wet	1.67		68.6 40-140			
Fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.4 40-140			
Fluorene	0.992	0.17	mg/Kg wet	1.67		59.5 40-140			
Hexachlorobenzene	1.02	0.34	mg/Kg wet	1.67		60.9 40-140			
Hexachlorobutadiene	0.911	0.34	mg/Kg wet	1.67		54.7 40-140			
Hexachloroethane	0.915	0.34	mg/Kg wet	1.67		54.9 40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5 40-140			
Isophorone	1.02	0.34	mg/Kg wet	1.67		61.2 40-140			
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.6 40-140			
2-Methylphenol	0.990	0.34	mg/Kg wet	1.67		59.4 30-130			
3/4-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.8 30-130			
Naphthalene	0.945	0.17	mg/Kg wet	1.67		56.7 40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207031 - SW-846 3546										
LCS (B207031-BS1)										
					Prepared: 07/02/18 Analyzed: 07/03/18					
Nitrobenzene	0.962	0.34	mg/Kg wet	1.67		57.7	40-140			
2-Nitrophenol	0.932	0.34	mg/Kg wet	1.67		55.9	30-130			
4-Nitrophenol	1.23	0.66	mg/Kg wet	1.67		73.9	15-140			V-06 †
Pentachlorophenol	0.416	0.34	mg/Kg wet	1.67		25.0 *	30-130			L-04
Phenanthrene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Phenol	0.981	0.34	mg/Kg wet	1.67		58.8	15-140			†
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Pyridine	0.695	0.34	mg/Kg wet	1.67		41.7	30-140			†
1,2,4-Trichlorobenzene	0.896	0.34	mg/Kg wet	1.67		53.8	40-140			
2,4,5-Trichlorophenol	0.984	0.34	mg/Kg wet	1.67		59.0	30-130			
2,4,6-Trichlorophenol	0.952	0.34	mg/Kg wet	1.67		57.1	30-130			
Surrogate: 2-Fluorophenol	4.24		mg/Kg wet	6.67		63.7	30-130			
Surrogate: Phenol-d6	4.31		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	1.87		mg/Kg wet	3.33		56.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.16		mg/Kg wet	6.67		62.3	30-130			
Surrogate: p-Terphenyl-d14	2.22		mg/Kg wet	3.33		66.7	30-130			
LCS Dup (B207031-BSD1)										
					Prepared: 07/02/18 Analyzed: 07/03/18					
Acenaphthene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140	2.31	30	
Acenaphthylene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	0.272	30	
Acetophenone	0.982	0.34	mg/Kg wet	1.67		58.9	40-140	0.955	30	
Aniline	0.820	0.34	mg/Kg wet	1.67		49.2	40-140	0.00	30	V-04
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	0.124	30	
Benzo(a)anthracene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	1.33	30	
Benzo(a)pyrene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	0.189	30	
Benzo(b)fluoranthene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	1.46	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	0.125	30	
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	0.232	30	
Bis(2-chloroethoxy)methane	1.06	0.34	mg/Kg wet	1.67		63.3	40-140	2.37	30	
Bis(2-chloroethyl)ether	0.998	0.34	mg/Kg wet	1.67		59.9	40-140	5.42	30	
Bis(2-chloroisopropyl)ether	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	3.17	30	V-06
Bis(2-Ethylhexyl)phthalate	1.11	0.34	mg/Kg wet	1.67		66.9	40-140	4.24	30	
4-Bromophenylphenylether	1.01	0.34	mg/Kg wet	1.67		60.4	40-140	0.594	30	
Butylbenzylphthalate	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	2.16	30	
4-Chloroaniline	0.863	0.66	mg/Kg wet	1.67		51.8	15-140	6.46	30	V-06, V-34 †
2-Chloronaphthalene	0.842	0.34	mg/Kg wet	1.67		50.5	40-140	5.62	30	
2-Chlorophenol	0.938	0.34	mg/Kg wet	1.67		56.3	30-130	1.00	30	
Chrysene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140	0.680	30	
Dibenz(a,h)anthracene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	0.289	30	
Dibenzofuran	1.04	0.34	mg/Kg wet	1.67		62.3	40-140	1.45	30	
Di-n-butylphthalate	1.04	0.34	mg/Kg wet	1.67		62.7	40-140	0.673	30	
1,2-Dichlorobenzene	0.915	0.34	mg/Kg wet	1.67		54.9	40-140	0.402	30	
1,3-Dichlorobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	0.0378	30	
1,4-Dichlorobenzene	0.897	0.34	mg/Kg wet	1.67		53.8	40-140	0.896	30	
3,3-Dichlorobenzidine	0.788	0.17	mg/Kg wet	1.67		47.3	40-140	1.15	30	V-34
2,4-Dichlorophenol	0.938	0.34	mg/Kg wet	1.67		56.3	30-130	0.857	30	
Diethylphthalate	1.00	0.34	mg/Kg wet	1.67		60.3	40-140	0.0664	30	
2,4-Dimethylphenol	1.06	0.34	mg/Kg wet	1.67		63.6	30-130	2.52	30	
Dimethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	2.04	30	
2,4-Dinitrophenol	0.361	0.66	mg/Kg wet	1.67		21.6	15-140	0.185	30	†
2,4-Dinitrotoluene	1.01	0.34	mg/Kg wet	1.67		60.8	40-140	0.296	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207031 - SW-846 3546										
LCS Dup (B207031-BSD1)										
					Prepared: 07/02/18 Analyzed: 07/03/18					
2,6-Dinitrotoluene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	0.639	30	
Di-n-octylphthalate	0.986	0.34	mg/Kg wet	1.67		59.1	40-140	0.441	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	3.07	30	
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	1.13	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	1.04	30	
Hexachlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.1	40-140	1.42	30	
Hexachlorobutadiene	0.895	0.34	mg/Kg wet	1.67		53.7	40-140	1.81	30	
Hexachloroethane	0.929	0.34	mg/Kg wet	1.67		55.7	40-140	1.52	30	
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	3.23	30	
Isophorone	1.04	0.34	mg/Kg wet	1.67		62.2	40-140	1.62	30	
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	0.953	30	
2-Methylphenol	0.999	0.34	mg/Kg wet	1.67		60.0	30-130	0.938	30	
3/4-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.1	30-130	0.438	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	1.54	30	
Nitrobenzene	0.982	0.34	mg/Kg wet	1.67		58.9	40-140	2.13	30	
2-Nitrophenol	0.940	0.34	mg/Kg wet	1.67		56.4	30-130	0.819	30	
4-Nitrophenol	1.26	0.66	mg/Kg wet	1.67		75.4	15-140	2.04	30	V-06 †
Pentachlorophenol	0.436	0.34	mg/Kg wet	1.67		26.2 *	30-130	4.77	30	L-04
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	0.905	30	
Phenol	0.996	0.34	mg/Kg wet	1.67		59.7	15-140	1.52	30	†
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	1.53	30	
Pyridine	0.716	0.34	mg/Kg wet	1.67		43.0	30-140	3.02	30	†
1,2,4-Trichlorobenzene	0.889	0.34	mg/Kg wet	1.67		53.4	40-140	0.784	30	
2,4,5-Trichlorophenol	0.974	0.34	mg/Kg wet	1.67		58.4	30-130	1.02	30	
2,4,6-Trichlorophenol	0.964	0.34	mg/Kg wet	1.67		57.9	30-130	1.25	30	
Surrogate: 2-Fluorophenol	4.20		mg/Kg wet	6.67		63.0	30-130			
Surrogate: Phenol-d6	4.29		mg/Kg wet	6.67		64.3	30-130			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.86		mg/Kg wet	3.33		55.7	30-130			
Surrogate: 2,4,6-Tribromophenol	4.04		mg/Kg wet	6.67		60.5	30-130			
Surrogate: p-Terphenyl-d14	2.24		mg/Kg wet	3.33		67.3	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206894 - SW-846 3546										
Blank (B206894-BLK1)										
Prepared: 06/29/18 Analyzed: 07/03/18										
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.143		mg/Kg wet	0.200		71.6	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206894 - SW-846 3546										
LCS (B206894-BS1)										
					Prepared: 06/29/18 Analyzed: 07/03/18					
alpha-Chlordane	0.080	0.0050	mg/Kg wet	0.100		80.0	40-140			
alpha-Chlordane [2C]	0.081	0.0050	mg/Kg wet	0.100		81.1	40-140			
gamma-Chlordane	0.078	0.0050	mg/Kg wet	0.100		78.2	40-140			
gamma-Chlordane [2C]	0.082	0.0050	mg/Kg wet	0.100		81.9	40-140			
Alachlor	0.12	0.020	mg/Kg wet	0.100		119	40-140			
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		94.6	40-140			
Aldrin	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
Aldrin [2C]	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140			
alpha-BHC	0.078	0.0050	mg/Kg wet	0.100		78.5	40-140			
alpha-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		77.0	40-140			
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		79.2	40-140			
beta-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.4	40-140			
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		80.9	40-140			
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.100		82.5	40-140			
gamma-BHC (Lindane) [2C]	0.082	0.0020	mg/Kg wet	0.100		81.8	40-140			
4,4'-DDD	0.088	0.0040	mg/Kg wet	0.100		88.0	40-140			
4,4'-DDD [2C]	0.086	0.0040	mg/Kg wet	0.100		86.1	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		88.6	40-140			
4,4'-DDE [2C]	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.100		87.9	40-140			
4,4'-DDT [2C]	0.084	0.0040	mg/Kg wet	0.100		84.3	40-140			
Dieldrin	0.085	0.0040	mg/Kg wet	0.100		84.7	40-140			
Dieldrin [2C]	0.080	0.0040	mg/Kg wet	0.100		80.1	40-140			
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		80.6	40-140			
Endosulfan I [2C]	0.079	0.0050	mg/Kg wet	0.100		78.8	40-140			
Endosulfan II	0.083	0.0080	mg/Kg wet	0.100		83.3	40-140			
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		84.8	40-140			
Endosulfan Sulfate	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140			
Endosulfan Sulfate [2C]	0.084	0.0080	mg/Kg wet	0.100		83.9	40-140			
Endrin	0.083	0.0080	mg/Kg wet	0.100		82.5	40-140			
Endrin [2C]	0.082	0.0080	mg/Kg wet	0.100		81.9	40-140			
Endrin Aldehyde	0.081	0.0080	mg/Kg wet	0.100		81.0	40-140			
Endrin Aldehyde [2C]	0.082	0.0080	mg/Kg wet	0.100		82.5	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.100		86.1	40-140			
Endrin Ketone [2C]	0.084	0.0080	mg/Kg wet	0.100		83.6	40-140			
Heptachlor	0.080	0.0050	mg/Kg wet	0.100		79.8	40-140			
Heptachlor [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
Heptachlor Epoxide	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140			
Heptachlor Epoxide [2C]	0.080	0.0050	mg/Kg wet	0.100		80.2	40-140			
Hexachlorobenzene	0.085	0.0060	mg/Kg wet	0.100		84.9	40-140			
Hexachlorobenzene [2C]	0.083	0.0060	mg/Kg wet	0.100		83.4	40-140			
Methoxychlor	0.085	0.050	mg/Kg wet	0.100		84.9	40-140			
Methoxychlor [2C]	0.087	0.050	mg/Kg wet	0.100		87.3	40-140			
Surrogate: Decachlorobiphenyl	0.153		mg/Kg wet	0.200		76.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.156		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.200		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.7	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206894 - SW-846 3546										
LCS (B206894-BS2)										
Prepared: 06/29/18 Analyzed: 07/03/18										
Toxaphene	0.19	0.10	mg/Kg wet	0.250		74.2	40-140			
Toxaphene [2C]	0.19	0.10	mg/Kg wet	0.250		76.2	40-140			
Surrogate: Decachlorobiphenyl	0.147		mg/Kg wet	0.200		73.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.153		mg/Kg wet	0.200		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.5	30-150			
LCS Dup (B206894-BSD1)										
Prepared: 06/29/18 Analyzed: 07/03/18										
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	2.17	30	
alpha-Chlordane [2C]	0.084	0.0050	mg/Kg wet	0.100		83.9	40-140	3.34	30	
gamma-Chlordane	0.080	0.0050	mg/Kg wet	0.100		79.9	40-140	2.12	30	
gamma-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	3.49	30	
Alachlor	0.11	0.020	mg/Kg wet	0.100		115	40-140	4.22	30	
Alachlor [2C]	0.099	0.020	mg/Kg wet	0.100		99.0	40-140	4.54	30	
Aldrin	0.085	0.0050	mg/Kg wet	0.100		85.3	40-140	3.19	30	
Aldrin [2C]	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	3.64	30	
alpha-BHC	0.081	0.0050	mg/Kg wet	0.100		81.3	40-140	3.52	30	
alpha-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.4	40-140	4.37	30	
beta-BHC	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140	2.95	30	
beta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140	2.68	30	
delta-BHC	0.086	0.0050	mg/Kg wet	0.100		86.3	40-140	2.59	30	
delta-BHC [2C]	0.083	0.0050	mg/Kg wet	0.100		82.8	40-140	2.32	30	
gamma-BHC (Lindane)	0.085	0.0020	mg/Kg wet	0.100		85.3	40-140	3.35	30	
gamma-BHC (Lindane) [2C]	0.085	0.0020	mg/Kg wet	0.100		84.7	40-140	3.48	30	
4,4'-DDD	0.091	0.0040	mg/Kg wet	0.100		90.7	40-140	2.98	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		89.5	40-140	3.85	30	
4,4'-DDE	0.091	0.0040	mg/Kg wet	0.100		90.7	40-140	2.26	30	
4,4'-DDE [2C]	0.088	0.0040	mg/Kg wet	0.100		87.7	40-140	3.16	30	
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140	2.07	30	
4,4'-DDT [2C]	0.087	0.0040	mg/Kg wet	0.100		86.8	40-140	2.94	30	
Dieldrin	0.087	0.0040	mg/Kg wet	0.100		86.8	40-140	2.46	30	
Dieldrin [2C]	0.083	0.0040	mg/Kg wet	0.100		82.8	40-140	3.38	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140	2.32	30	
Endosulfan I [2C]	0.080	0.0050	mg/Kg wet	0.100		80.1	40-140	1.63	30	
Endosulfan II	0.086	0.0080	mg/Kg wet	0.100		85.9	40-140	3.06	30	
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140	3.51	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		83.3	40-140	2.49	30	
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		86.8	40-140	3.39	30	
Endrin	0.085	0.0080	mg/Kg wet	0.100		84.8	40-140	2.68	30	
Endrin [2C]	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	4.60	30	
Endrin Aldehyde	0.084	0.0080	mg/Kg wet	0.100		83.7	40-140	3.29	30	
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.8	40-140	3.95	30	
Endrin Ketone	0.088	0.0080	mg/Kg wet	0.100		88.3	40-140	2.58	30	
Endrin Ketone [2C]	0.086	0.0080	mg/Kg wet	0.100		86.2	40-140	3.06	30	
Heptachlor	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	2.53	30	
Heptachlor [2C]	0.087	0.0050	mg/Kg wet	0.100		86.7	40-140	3.59	30	
Heptachlor Epoxide	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140	2.24	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140	2.45	30	
Hexachlorobenzene	0.088	0.0060	mg/Kg wet	0.100		88.4	40-140	4.09	30	
Hexachlorobenzene [2C]	0.087	0.0060	mg/Kg wet	0.100		87.3	40-140	4.55	30	
Methoxychlor	0.086	0.050	mg/Kg wet	0.100		86.2	40-140	1.49	30	
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.100		89.3	40-140	2.33	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B206894 - SW-846 3546

LCS Dup (B206894-BSD1)

Prepared: 06/29/18 Analyzed: 07/03/18

Surrogate: Decachlorobiphenyl	0.150		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			

Batch B207027 - SW-846 3546

Matrix Spike (B207027-MS1)

Source: 18F1479-01

Prepared: 07/02/18 Analyzed: 07/06/18

Alachlor	0.091	0.022	mg/Kg dry	0.110	ND	82.5	30-150			
Alachlor [2C]	0.097	0.022	mg/Kg dry	0.110	ND	88.7	30-150			
Aldrin	0.079	0.0055	mg/Kg dry	0.110	ND	72.3	30-150			
Aldrin [2C]	0.087	0.0055	mg/Kg dry	0.110	ND	79.4	30-150			
alpha-BHC	0.060	0.0055	mg/Kg dry	0.110	ND	54.5	30-150			
alpha-BHC [2C]	0.065	0.0055	mg/Kg dry	0.110	ND	58.9	30-150			
beta-BHC	0.069	0.0055	mg/Kg dry	0.110	ND	62.7	30-150			
beta-BHC [2C]	0.074	0.0055	mg/Kg dry	0.110	ND	67.2	30-150			
delta-BHC	0.071	0.0055	mg/Kg dry	0.110	ND	64.8	30-150			
delta-BHC [2C]	0.082	0.0055	mg/Kg dry	0.110	ND	74.7	30-150			
gamma-BHC (Lindane)	0.065	0.0022	mg/Kg dry	0.110	ND	59.5	30-150			
gamma-BHC (Lindane) [2C]	0.073	0.0022	mg/Kg dry	0.110	ND	66.4	30-150			
4,4'-DDD	0.11	0.0044	mg/Kg dry	0.110	ND	97.0	30-150			V-06
4,4'-DDD [2C]	0.099	0.0044	mg/Kg dry	0.110	ND	90.1	30-150			
4,4'-DDE	0.095	0.0044	mg/Kg dry	0.110	ND	86.8	30-150			
4,4'-DDE [2C]	0.095	0.0044	mg/Kg dry	0.110	ND	86.8	30-150			
4,4'-DDT	0.10	0.0044	mg/Kg dry	0.110	ND	94.1	30-150			
4,4'-DDT [2C]	0.089	0.0044	mg/Kg dry	0.110	ND	81.4	30-150			
Dieldrin	0.096	0.0044	mg/Kg dry	0.110	ND	87.1	30-150			
Dieldrin [2C]	0.088	0.0044	mg/Kg dry	0.110	ND	80.5	30-150			
Endosulfan I	0.087	0.0055	mg/Kg dry	0.110	ND	79.1	30-150			
Endosulfan I [2C]	0.085	0.0055	mg/Kg dry	0.110	ND	77.0	30-150			
Endosulfan II	0.095	0.0088	mg/Kg dry	0.110	ND	86.4	30-150			
Endosulfan II [2C]	0.091	0.0088	mg/Kg dry	0.110	ND	82.9	30-150			
Endosulfan Sulfate	0.097	0.0088	mg/Kg dry	0.110	ND	88.2	30-150			V-06
Endosulfan Sulfate [2C]	0.087	0.0088	mg/Kg dry	0.110	ND	79.5	30-150			
Endrin	0.093	0.0088	mg/Kg dry	0.110	ND	85.0	30-150			
Endrin [2C]	0.087	0.0088	mg/Kg dry	0.110	ND	79.0	30-150			
Endrin Aldehyde	0.087	0.0088	mg/Kg dry	0.110	ND	79.5	30-150			
Endrin Aldehyde [2C]	0.086	0.0088	mg/Kg dry	0.110	ND	78.0	30-150			
Endrin Ketone	0.10	0.0088	mg/Kg dry	0.110	ND	94.5	30-150			V-06
Endrin Ketone [2C]	0.088	0.0088	mg/Kg dry	0.110	ND	80.4	30-150			
Heptachlor	0.072	0.0055	mg/Kg dry	0.110	ND	66.0	30-150			
Heptachlor [2C]	0.082	0.0055	mg/Kg dry	0.110	ND	74.6	30-150			
Heptachlor Epoxide	0.081	0.0055	mg/Kg dry	0.110	ND	73.8	30-150			
Heptachlor Epoxide [2C]	0.090	0.0055	mg/Kg dry	0.110	ND	82.3	30-150			
Hexachlorobenzene	0.082	0.0066	mg/Kg dry	0.110	ND	74.9	30-150			
Hexachlorobenzene [2C]	0.088	0.0066	mg/Kg dry	0.110	ND	80.2	30-150			
Methoxychlor	0.10	0.055	mg/Kg dry	0.110	ND	94.4	30-150			
Methoxychlor [2C]	0.094	0.055	mg/Kg dry	0.110	ND	85.9	30-150			
Surrogate: Decachlorobiphenyl	0.203		mg/Kg dry	0.220		92.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg dry	0.220		81.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.134		mg/Kg dry	0.220		60.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.132		mg/Kg dry	0.220		59.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207027 - SW-846 3546										
Matrix Spike Dup (B207027-MSD1)										
		Source: 18F1479-01			Prepared: 07/02/18 Analyzed: 07/06/18					
Alachlor	0.085	0.022	mg/Kg dry	0.110	ND	77.6	30-150	6.01	30	
Alachlor [2C]	0.087	0.022	mg/Kg dry	0.110	ND	78.9	30-150	11.7	30	
Aldrin	0.069	0.0055	mg/Kg dry	0.110	ND	62.7	30-150	14.3	30	
Aldrin [2C]	0.076	0.0055	mg/Kg dry	0.110	ND	69.1	30-150	13.9	30	
alpha-BHC	0.050	0.0055	mg/Kg dry	0.110	ND	45.3	30-150	18.3	30	
alpha-BHC [2C]	0.054	0.0055	mg/Kg dry	0.110	ND	48.9	30-150	18.5	30	
beta-BHC	0.056	0.0055	mg/Kg dry	0.110	ND	50.6	30-150	21.3	30	
beta-BHC [2C]	0.061	0.0055	mg/Kg dry	0.110	ND	55.7	30-150	18.6	30	
delta-BHC	0.060	0.0055	mg/Kg dry	0.110	ND	54.5	30-150	17.4	30	
delta-BHC [2C]	0.069	0.0055	mg/Kg dry	0.110	ND	63.1	30-150	16.9	30	
gamma-BHC (Lindane)	0.054	0.0022	mg/Kg dry	0.110	ND	49.6	30-150	18.2	30	
gamma-BHC (Lindane) [2C]	0.061	0.0022	mg/Kg dry	0.110	ND	55.5	30-150	18.0	30	
4,4'-DDD	0.092	0.0044	mg/Kg dry	0.110	ND	84.1	30-150	14.3	30	V-06
4,4'-DDD [2C]	0.089	0.0044	mg/Kg dry	0.110	ND	80.9	30-150	10.8	30	
4,4'-DDE	0.083	0.0044	mg/Kg dry	0.110	ND	75.8	30-150	13.6	30	
4,4'-DDE [2C]	0.084	0.0044	mg/Kg dry	0.110	ND	76.4	30-150	12.7	30	
4,4'-DDT	0.092	0.0044	mg/Kg dry	0.110	ND	83.7	30-150	11.8	30	
4,4'-DDT [2C]	0.082	0.0044	mg/Kg dry	0.110	ND	74.8	30-150	8.55	30	
Dieldrin	0.082	0.0044	mg/Kg dry	0.110	ND	74.6	30-150	15.4	30	
Dieldrin [2C]	0.076	0.0044	mg/Kg dry	0.110	ND	69.4	30-150	14.9	30	
Endosulfan I	0.076	0.0055	mg/Kg dry	0.110	ND	68.9	30-150	13.7	30	
Endosulfan I [2C]	0.071	0.0055	mg/Kg dry	0.110	ND	64.9	30-150	17.1	30	
Endosulfan II	0.082	0.0088	mg/Kg dry	0.110	ND	74.3	30-150	15.1	30	
Endosulfan II [2C]	0.081	0.0088	mg/Kg dry	0.110	ND	73.3	30-150	12.3	30	
Endosulfan Sulfate	0.081	0.0088	mg/Kg dry	0.110	ND	73.9	30-150	17.6	30	V-06
Endosulfan Sulfate [2C]	0.075	0.0088	mg/Kg dry	0.110	ND	68.5	30-150	14.8	30	
Endrin	0.080	0.0088	mg/Kg dry	0.110	ND	72.5	30-150	15.9	30	
Endrin [2C]	0.076	0.0088	mg/Kg dry	0.110	ND	69.1	30-150	13.5	30	
Endrin Aldehyde	0.070	0.0088	mg/Kg dry	0.110	ND	63.4	30-150	22.5	30	
Endrin Aldehyde [2C]	0.075	0.0088	mg/Kg dry	0.110	ND	68.7	30-150	12.7	30	
Endrin Ketone	0.086	0.0088	mg/Kg dry	0.110	ND	78.3	30-150	18.8	30	V-06
Endrin Ketone [2C]	0.074	0.0088	mg/Kg dry	0.110	ND	67.7	30-150	17.1	30	
Heptachlor	0.063	0.0055	mg/Kg dry	0.110	ND	57.6	30-150	13.6	30	
Heptachlor [2C]	0.072	0.0055	mg/Kg dry	0.110	ND	65.4	30-150	13.2	30	
Heptachlor Epoxide	0.070	0.0055	mg/Kg dry	0.110	ND	63.4	30-150	15.2	30	
Heptachlor Epoxide [2C]	0.080	0.0055	mg/Kg dry	0.110	ND	72.7	30-150	12.5	30	
Hexachlorobenzene	0.071	0.0066	mg/Kg dry	0.110	ND	64.2	30-150	15.3	30	
Hexachlorobenzene [2C]	0.076	0.0066	mg/Kg dry	0.110	ND	69.2	30-150	14.7	30	
Methoxychlor	0.091	0.055	mg/Kg dry	0.110	ND	82.9	30-150	13.0	30	
Methoxychlor [2C]	0.083	0.055	mg/Kg dry	0.110	ND	75.7	30-150	12.5	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg dry	0.220		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg dry	0.220		72.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.115		mg/Kg dry	0.220		52.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.113		mg/Kg dry	0.220		51.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206966 - SW-846 3546										
Blank (B206966-BLK1)										
Prepared: 06/29/18 Analyzed: 07/01/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.123		mg/Kg wet	0.200		61.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.129		mg/Kg wet	0.200		64.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.124		mg/Kg wet	0.200		62.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.126		mg/Kg wet	0.200		62.9	30-150			
LCS (B206966-BS1)										
Prepared: 06/29/18 Analyzed: 07/01/18										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.5	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.4	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140			
Surrogate: Decachlorobiphenyl	0.152		mg/Kg wet	0.200		75.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.142		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.5	30-150			
LCS Dup (B206966-BSD1)										
Prepared: 06/29/18 Analyzed: 07/01/18										
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		63.6	40-140	17.2	30	
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		65.9	40-140	14.6	30	
Aroclor-1260	0.12	0.020	mg/Kg wet	0.200		62.5	40-140	17.7	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.3	40-140	18.4	30	
Surrogate: Decachlorobiphenyl	0.125		mg/Kg wet	0.200		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.131		mg/Kg wet	0.200		65.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.127		mg/Kg wet	0.200		63.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.130		mg/Kg wet	0.200		65.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207028 - SW-846 3546										
Blank (B207028-BLK1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.6	30-150			
LCS (B207028-BS1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.1	40-140			
Aroclor-1260	0.26	0.020	mg/Kg wet	0.200		131	40-140			
Aroclor-1260 [2C]	0.24	0.020	mg/Kg wet	0.200		119	40-140			
Surrogate: Decachlorobiphenyl	0.274		mg/Kg wet	0.200		137	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.249		mg/Kg wet	0.200		124	30-150			
Surrogate: Tetrachloro-m-xylene	0.140		mg/Kg wet	0.200		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.128		mg/Kg wet	0.200		64.1	30-150			
LCS Dup (B207028-BSD1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140	9.89	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.7	40-140	10.5	30	
Aroclor-1260	0.21	0.020	mg/Kg wet	0.200		106	40-140	21.3	30	
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		97.7	40-140	19.5	30	
Surrogate: Decachlorobiphenyl	0.211		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207028 - SW-846 3546

Matrix Spike (B207028-MS1)

Source: 18F1479-03

Prepared: 07/02/18 Analyzed: 07/03/18

Aroclor-1016	0.21	0.082	mg/Kg dry	0.205	ND	104	40-140			
Aroclor-1016 [2C]	0.22	0.082	mg/Kg dry	0.205	ND	105	40-140			
Aroclor-1260	0.19	0.082	mg/Kg dry	0.205	ND	93.4	40-140			
Aroclor-1260 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	93.9	40-140			
Surrogate: Decachlorobiphenyl	0.166		mg/Kg dry	0.205		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg dry	0.205		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg dry	0.205		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.204		mg/Kg dry	0.205		99.2	30-150			

Matrix Spike Dup (B207028-MSD1)

Source: 18F1479-03

Prepared: 07/02/18 Analyzed: 07/03/18

Aroclor-1016	0.20	0.082	mg/Kg dry	0.205	ND	95.3	40-140	8.97	30	
Aroclor-1016 [2C]	0.20	0.082	mg/Kg dry	0.205	ND	96.4	40-140	8.34	30	
Aroclor-1260	0.18	0.082	mg/Kg dry	0.205	ND	89.5	40-140	4.31	30	
Aroclor-1260 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	92.4	40-140	1.57	30	
Surrogate: Decachlorobiphenyl	0.160		mg/Kg dry	0.205		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg dry	0.205		82.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg dry	0.205		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg dry	0.205		88.1	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207020 - SW-846 8151										
Blank (B207020-BLK1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	78.7		µg/kg wet	95.2		82.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	71.6		µg/kg wet	95.2		75.2	30-150			
LCS (B207020-BS1)										
Prepared: 07/02/18 Analyzed: 07/03/18										
2,4-D	115	25	µg/kg wet	125		92.4	40-140			
2,4-D [2C]	107	25	µg/kg wet	125		85.4	40-140			
2,4-DB	105	25	µg/kg wet	125		84.4	40-140			
2,4-DB [2C]	92.7	25	µg/kg wet	125		74.1	40-140			
2,4,5-TP (Silvex)	11.5	2.5	µg/kg wet	12.5		92.1	40-140			
2,4,5-TP (Silvex) [2C]	9.54	2.5	µg/kg wet	12.5		76.4	40-140			
2,4,5-T	11.1	2.5	µg/kg wet	12.5		88.7	40-140			
2,4,5-T [2C]	9.96	2.5	µg/kg wet	12.5		79.7	40-140			
Dalapon	199	62	µg/kg wet	312		63.7	40-140			
Dalapon [2C]	182	62	µg/kg wet	312		58.3	40-140			
Dicamba	11.1	2.5	µg/kg wet	12.5		88.6	40-140			
Dicamba [2C]	10.2	2.5	µg/kg wet	12.5		81.6	40-140			
Dichloroprop	119	25	µg/kg wet	125		94.9	40-140			
Dichloroprop [2C]	109	25	µg/kg wet	125		86.9	40-140			
Dinoseb	12.8	12	µg/kg wet	62.5		20.5	0-42.4			V-06
Dinoseb [2C]	10.7	12	µg/kg wet	62.5		17.1	0-41.1			
MCPA	11900	2500	µg/kg wet	12500		95.2	40-140			
MCPA [2C]	12100	2500	µg/kg wet	12500		96.7	40-140			
MCPP	14700	2500	µg/kg wet	12500		117	40-140			
MCPP [2C]	11700	2500	µg/kg wet	12500		93.6	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	87.8		µg/kg wet	100		87.8	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	81.6		µg/kg wet	100		81.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207020 - SW-846 8151										
LCS Dup (B207020-BSD1)										
					Prepared: 07/02/18 Analyzed: 07/03/18					
2,4-D	113	25	µg/kg wet	125		90.2	40-140	2.40	30	
2,4-D [2C]	108	25	µg/kg wet	125		86.4	40-140	1.09	30	
2,4-DB	113	25	µg/kg wet	125		90.6	40-140	7.11	30	
2,4-DB [2C]	103	25	µg/kg wet	125		82.2	40-140	10.3	30	
2,4,5-TP (Silvex)	11.1	2.5	µg/kg wet	12.5		88.8	40-140	3.75	30	
2,4,5-TP (Silvex) [2C]	9.80	2.5	µg/kg wet	12.5		78.4	40-140	2.65	30	
2,4,5-T	10.9	2.5	µg/kg wet	12.5		87.5	40-140	1.35	30	
2,4,5-T [2C]	10.2	2.5	µg/kg wet	12.5		81.2	40-140	1.88	30	
Dalapon	189	62	µg/kg wet	312		60.5	40-140	5.19	30	
Dalapon [2C]	185	62	µg/kg wet	312		59.2	40-140	1.61	30	
Dicamba	10.7	2.5	µg/kg wet	12.5		85.9	40-140	3.08	30	
Dicamba [2C]	11.0	2.5	µg/kg wet	12.5		87.7	40-140	7.22	30	
Dichloroprop	114	25	µg/kg wet	125		91.1	40-140	4.10	30	
Dichloroprop [2C]	112	25	µg/kg wet	125		89.5	40-140	2.99	30	
Dinoseb	10.9	12	µg/kg wet	62.5		17.4	0-42.4	16.6	30	V-06
Dinoseb [2C]	9.18	12	µg/kg wet	62.5		14.7	0-41.1	15.3	30	
MCPA	9940	2500	µg/kg wet	12500		79.5	40-140	18.0	30	
MCPA [2C]	11700	2500	µg/kg wet	12500		93.2	40-140	3.66	30	
MCPP	14100	2500	µg/kg wet	12500		113	40-140	3.90	30	
MCPP [2C]	10300	2500	µg/kg wet	12500		82.1	40-140	13.1	30	
Surrogate: 2,4-Dichlorophenylacetic acid	85.7		µg/kg wet	100		85.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	83.7		µg/kg wet	100		83.7	30-150			
Matrix Spike (B207020-MS1)										
					Source: 18F1479-07 Prepared: 07/02/18 Analyzed: 07/03/18					
2,4-D	105	26	µg/kg dry	132	ND	79.9	30-150			
2,4-D [2C]	107	26	µg/kg dry	132	ND	81.3	30-150			
2,4-DB	105	26	µg/kg dry	132	ND	79.9	30-150			
2,4-DB [2C]	101	26	µg/kg dry	132	ND	76.9	30-150			
2,4,5-TP (Silvex)	10.1	2.6	µg/kg dry	13.2	ND	76.3	30-150			
2,4,5-TP (Silvex) [2C]	9.49	2.6	µg/kg dry	13.2	ND	71.9	30-150			
2,4,5-T	9.96	2.6	µg/kg dry	13.2	ND	75.5	30-150			
2,4,5-T [2C]	9.10	2.6	µg/kg dry	13.2	ND	68.9	30-150			
Dalapon	194	66	µg/kg dry	330	ND	58.9	30-150			
Dalapon [2C]	204	66	µg/kg dry	330	ND	61.9	30-150			
Dicamba	9.50	2.6	µg/kg dry	13.2	ND	72.0	30-150			
Dicamba [2C]	10.8	2.6	µg/kg dry	13.2	ND	81.6	30-150			
Dichloroprop	108	26	µg/kg dry	132	ND	81.5	30-150			
Dichloroprop [2C]	109	26	µg/kg dry	132	ND	82.4	30-150			
Dinoseb	21.6	13	µg/kg dry	66.0	ND	32.8	10-150			V-06
Dinoseb [2C]	17.4	13	µg/kg dry	66.0	ND	26.4	10-150			
MCPA	9470	2600	µg/kg dry	13200	ND	71.8	30-150			
MCPA [2C]	8550	2600	µg/kg dry	13200	ND	64.8	30-150			
MCPP	13000	2600	µg/kg dry	13200	ND	98.6	30-150			
MCPP [2C]	8790	2600	µg/kg dry	13200	ND	66.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	78.0		µg/kg dry	106		73.9	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	98.4		µg/kg dry	106		93.3	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207020 - SW-846 8151										
Matrix Spike Dup (B207020-MSD1)		Source: 18F1479-07			Prepared: 07/02/18 Analyzed: 07/03/18					
2,4-D	115	26	µg/kg dry	132	ND	86.9	30-150	8.36	30	
2,4-D [2C]	112	26	µg/kg dry	132	ND	85.1	30-150	4.55	30	
2,4-DB	116	26	µg/kg dry	132	ND	88.3	30-150	9.90	30	
2,4-DB [2C]	111	26	µg/kg dry	132	ND	84.3	30-150	9.17	30	
2,4,5-TP (Silvex)	11.2	2.6	µg/kg dry	13.2	ND	85.3	30-150	11.2	30	
2,4,5-TP (Silvex) [2C]	10.1	2.6	µg/kg dry	13.2	ND	76.5	30-150	6.20	30	
2,4,5-T	10.9	2.6	µg/kg dry	13.2	ND	82.9	30-150	9.32	30	
2,4,5-T [2C]	9.88	2.6	µg/kg dry	13.2	ND	74.9	30-150	8.30	30	
Dalapon	212	66	µg/kg dry	330	ND	64.2	30-150	8.65	30	
Dalapon [2C]	221	66	µg/kg dry	330	ND	67.1	30-150	8.10	30	
Dicamba	10.2	2.6	µg/kg dry	13.2	ND	77.3	30-150	7.08	30	
Dicamba [2C]	11.3	2.6	µg/kg dry	13.2	ND	85.6	30-150	4.73	30	
Dichloroprop	116	26	µg/kg dry	132	ND	87.7	30-150	7.36	30	
Dichloroprop [2C]	116	26	µg/kg dry	132	ND	88.2	30-150	6.78	30	
Dinoseb	22.7	13	µg/kg dry	66.0	ND	34.4	10-150	4.91	30	V-06
Dinoseb [2C]	18.0	13	µg/kg dry	66.0	ND	27.2	10-150	3.25	30	
MCPA	10400	2600	µg/kg dry	13200	ND	78.9	30-150	9.50	30	
MCPA [2C]	9880	2600	µg/kg dry	13200	ND	74.9	30-150	14.4	30	
MCPP	14200	2600	µg/kg dry	13200	ND	108	30-150	8.80	30	
MCPP [2C]	9510	2600	µg/kg dry	13200	ND	72.1	30-150	7.86	30	
Surrogate: 2,4-Dichlorophenylacetic acid	85.5		µg/kg dry	106		81.1	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	95.0		µg/kg dry	106		90.0	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206967 - SW-846 3546										
Blank (B206967-BLK1) Prepared: 06/29/18 Analyzed: 06/30/18										
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.63		mg/Kg wet	3.33		48.9	40-140			
LCS (B206967-BS1) Prepared: 06/29/18 Analyzed: 06/30/18										
TPH (C9-C36)	19.2	8.3	mg/Kg wet	33.3		57.5	40-140			
Surrogate: 2-Fluorobiphenyl	1.95		mg/Kg wet	3.37		57.9	40-140			
LCS Dup (B206967-BSD1) Prepared: 06/29/18 Analyzed: 06/30/18										
TPH (C9-C36)	21.1	8.3	mg/Kg wet	33.3		63.2	40-140	9.37	30	
Surrogate: 2-Fluorobiphenyl	2.20		mg/Kg wet	3.37		65.2	40-140			
Batch B207030 - SW-846 3546										
Blank (B207030-BLK1) Prepared: 07/02/18 Analyzed: 07/03/18										
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.10		mg/Kg wet	3.33		63.1	40-140			
LCS (B207030-BS1) Prepared: 07/02/18 Analyzed: 07/03/18										
TPH (C9-C36)	22.8	8.3	mg/Kg wet	33.3		68.3	40-140			
Surrogate: 2-Fluorobiphenyl	2.79		mg/Kg wet	3.33		83.8	40-140			
LCS Dup (B207030-BSD1) Prepared: 07/02/18 Analyzed: 07/03/18										
TPH (C9-C36)	22.2	8.3	mg/Kg wet	33.3		66.6	40-140	2.52	30	
Surrogate: 2-Fluorobiphenyl	2.67		mg/Kg wet	3.33		80.1	40-140			
Matrix Spike (B207030-MS1) Source: 18F1479-04 Prepared: 07/02/18 Analyzed: 07/03/18										
TPH (C9-C36)	31.8	9.4	mg/Kg dry	37.6	9.73	58.7	40-140			
Surrogate: 2-Fluorobiphenyl	2.93		mg/Kg dry	3.76		77.8	40-140			
Matrix Spike Dup (B207030-MSD1) Source: 18F1479-04 Prepared: 07/02/18 Analyzed: 07/03/18										
TPH (C9-C36)	32.2	9.4	mg/Kg dry	37.6	9.73	59.8	40-140	1.28	30	
Surrogate: 2-Fluorobiphenyl	2.92		mg/Kg dry	3.76		77.6	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B207427 - SW-846 3050B

Blank (B207427-BLK1)

Prepared: 07/07/18 Analyzed: 07/10/18

Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	1.6	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.16	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.49	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.65	mg/Kg wet							
Zinc	ND	0.65	mg/Kg wet							

LCS (B207427-BS1)

Prepared: 07/07/18 Analyzed: 07/10/18

Antimony	60.0	5.0	mg/Kg wet	75.5		79.4	3.8-196			
Arsenic	162	5.0	mg/Kg wet	161		101	83.2-116.8			
Barium	275	5.0	mg/Kg wet	260		106	82.7-117.3			
Beryllium	101	0.50	mg/Kg wet	97.6		103	83.4-116.8			
Cadmium	209	0.50	mg/Kg wet	211		98.9	83.4-116.6			
Chromium	141	1.0	mg/Kg wet	136		104	82.4-117.6			
Lead	110	1.5	mg/Kg wet	111		98.8	83-117.1			
Nickel	92.8	1.0	mg/Kg wet	91.9		101	82.9-117.5			
Selenium	190	10	mg/Kg wet	191		99.5	79.6-120.9			
Silver	44.1	1.0	mg/Kg wet	43.3		102	79.9-119.9			
Thallium	161	5.0	mg/Kg wet	156		103	81.4-119.2			
Vanadium	56.6	2.0	mg/Kg wet	56.7		99.7	79-121.2			
Zinc	202	2.0	mg/Kg wet	199		102	81.4-119.1			

LCS Dup (B207427-BSD1)

Prepared: 07/07/18 Analyzed: 07/10/18

Antimony	60.7	5.0	mg/Kg wet	75.5		80.5	3.8-196	1.29	30	
Arsenic	162	5.0	mg/Kg wet	161		100	83.2-116.8	0.222	30	
Barium	266	5.0	mg/Kg wet	260		102	82.7-117.3	3.37	30	
Beryllium	101	0.50	mg/Kg wet	97.6		103	83.4-116.8	0.100	30	
Cadmium	206	0.50	mg/Kg wet	211		97.5	83.4-116.6	1.40	30	
Chromium	139	0.99	mg/Kg wet	136		102	82.4-117.6	1.35	30	
Lead	109	1.5	mg/Kg wet	111		98.3	83-117.1	0.560	30	
Nickel	90.4	0.99	mg/Kg wet	91.9		98.4	82.9-117.5	2.54	30	
Selenium	186	9.9	mg/Kg wet	191		97.2	79.6-120.9	2.33	30	
Silver	43.0	0.99	mg/Kg wet	43.3		99.2	79.9-119.9	2.68	30	
Thallium	164	5.0	mg/Kg wet	156		105	81.4-119.2	2.05	30	
Vanadium	54.9	2.0	mg/Kg wet	56.7		96.9	79-121.2	2.93	30	
Zinc	199	2.0	mg/Kg wet	199		100	81.4-119.1	1.62	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B207427 - SW-846 3050B										
MRL Check (B207427-MRL1)					Prepared: 07/07/18 Analyzed: 07/10/18					
Lead	0.493	0.50	mg/Kg wet	0.498		99.0	80-120			
Batch B207428 - SW-846 7471										
Blank (B207428-BLK1)					Prepared: 07/07/18 Analyzed: 07/10/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B207428-BS1)					Prepared: 07/07/18 Analyzed: 07/10/18					
Mercury	9.07	1.9	mg/Kg wet	9.36		96.9	73.7-126.3			
LCS Dup (B207428-BSD1)					Prepared: 07/07/18 Analyzed: 07/10/18					
Mercury	9.83	1.9	mg/Kg wet	9.36		105	73.7-126.3	8.13	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B206982 - SW-846 9045C										
LCS (B206982-BS1)				Prepared & Analyzed: 06/29/18						
pH	6.02		pH Units	6.00		100	90-110			
LCS (B206982-BS2)				Prepared & Analyzed: 06/29/18						
pH	6.00		pH Units	6.00		100	90-110			
Duplicate (B206982-DUP1)		Source: 18F1479-08			Prepared & Analyzed: 06/29/18					
pH	6.8		pH Units		6.8			0.292	5	H-03
Batch B207228 - SW-846 9014										
Blank (B207228-BLK1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B207228-BS1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Reactive Cyanide	11	0.40	mg/Kg	10.0		106	83.6-111			
Batch B207232 - SW-846 9030A										
Blank (B207232-BLK1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B207232-BS1)				Prepared: 07/05/18 Analyzed: 07/06/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		91.9	54.9-121			
Batch B207237 - % Solids										
Duplicate (B207237-DUP1)		Source: 18F1479-01			Prepared: 07/05/18 Analyzed: 07/06/18					
% Solids	91.8		% Wt		91.1			0.837	20	
Batch B207461 - SM21-22 2510B Modified										
Blank (B207461-BLK1)				Prepared & Analyzed: 07/09/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B207461-BS1)				Prepared & Analyzed: 07/09/18						
Specific conductance	190		µmhos/cm	192		97.7	90-110			
Duplicate (B207461-DUP1)		Source: 18F1479-01			Prepared & Analyzed: 07/09/18					
Specific conductance	4.4	2.0	µmhos/cm		4.2			5.15	21	

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BREAKDOWN REPORT

Lab Sample ID: S024956-PEM1 **Analyzed:** 07/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.87
Endrin [1] 3.00

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.66
Endrin [2] 3.52

BREAKDOWN REPORT

Lab Sample ID: S024956-PEM2 **Analyzed:** 07/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.29
Endrin [1] 3.13

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.29
Endrin [2] 3.47

BREAKDOWN REPORT

Lab Sample ID: S024956-PEM3 **Analyzed:** 07/03/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.32
Endrin [1] 2.60

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BREAKDOWN REPORT

Lab Sample ID: S024956-PEM3 **Analyzed:** 07/03/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.57
Endrin [2] 3.30

BREAKDOWN REPORT

Lab Sample ID: S024956-PEM4 **Analyzed:** 07/04/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.60
Endrin [1] 2.82

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 2.90
Endrin [2] 3.32

BREAKDOWN REPORT

Lab Sample ID: S025053-PEM1 **Analyzed:** 07/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 4.36
Endrin [1] 4.11

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 6.19
Endrin [2] 3.78

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S025053-PEM2 Analyzed: 07/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	5.05
Endrin [1]	5.49

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	6.40
Endrin [2]	4.22

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MP17

SW-846 8081B

Lab Sample ID: 18F1479-07 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	0.028	
	2	0.000	-0.030	0.030	0.027	3.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MP19

SW-846 8081B

Lab Sample ID: 18F1479-08 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	7.282	7.254	7.314	0.010	
	2	7.232	7.205	7.265	0.012	18.2
4,4'-DDT	1	7.963	7.936	7.996	0.012	
	2	7.927	7.899	7.959	0.011	8.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B206894-BS1 Date(s) Analyzed: 07/03/2018 07/03/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.693	7.665	7.725	0.088	
	2	7.739	7.712	7.772	0.086	2.3
4,4'-DDE	1	7.232	7.205	7.265	0.089	
	2	7.289	7.261	7.321	0.085	4.6
4,4'-DDT	1	7.911	7.884	7.944	0.088	
	2	7.982	7.955	8.015	0.084	4.7
Alachlor	1	6.635	6.607	6.667	0.12	
	2	6.418	6.390	6.450	0.095	23.3
Aldrin	1	6.549	6.520	6.580	0.083	
	2	6.499	6.471	6.531	0.080	3.7
alpha-BHC	1	5.776	5.747	5.807	0.078	
	2	5.725	5.696	5.756	0.077	2.6
alpha-Chlordane	1	7.185	7.158	7.218	0.080	
	2	7.165	7.138	7.198	0.081	1.2
beta-BHC	1	6.048	6.019	6.079	0.079	
	2	6.016	5.987	6.047	0.072	9.3
delta-BHC	1	6.176	6.147	6.207	0.084	
	2	6.220	6.192	6.252	0.081	3.6
Dieldrin	1	7.475	7.448	7.508	0.085	
	2	7.420	7.392	7.452	0.080	6.1
Endosulfan I	1	7.293	7.266	7.326	0.081	
	2	7.210	7.184	7.244	0.079	2.5
Endosulfan II	1	7.830	7.803	7.863	0.083	
	2	7.822	7.795	7.855	0.085	2.4
Endosulfan Sulfate	1	8.431	8.402	8.462	0.081	
	2	8.270	8.242	8.302	0.084	3.6
Endrin	1	7.657	7.630	7.690	0.083	
	2	7.657	7.629	7.689	0.082	1.2
Endrin Aldehyde	1	8.139	8.111	8.171	0.081	
	2	8.077	8.050	8.110	0.082	1.2
Endrin Ketone	1	8.606	8.579	8.639	0.086	



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS

Lab Sample ID: B206894-BS1 Date(s) Analyzed: 07/03/2018 07/03/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.608	8.581	8.641	0.084	2.4
gamma-BHC (Lindane)	1	5.993	5.965	6.025	0.082	
	2	5.963	5.934	5.994	0.082	1.2
gamma-Chlordane	1	7.085	7.057	7.117	0.078	
	2	7.055	7.027	7.087	0.082	5.0
Heptachlor	1	6.330	6.301	6.361	0.080	
	2	6.268	6.240	6.300	0.084	4.9
Heptachlor Epoxide	1	6.993	6.965	7.025	0.080	
	2	6.915	6.888	6.948	0.080	0.0
Hexachlorobenzene	1	5.662	5.633	5.693	0.085	
	2	5.631	5.602	5.662	0.083	2.4
Methoxychlor	1	8.249	8.221	8.281	0.085	
	2	8.451	8.424	8.484	0.087	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B206894-BSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.693	7.665	7.725	0.091	
	2	7.740	7.712	7.772	0.089	2.2
4,4'-DDE	1	7.232	7.205	7.265	0.091	
	2	7.290	7.261	7.321	0.088	3.4
4,4'-DDT	1	7.911	7.884	7.944	0.090	
	2	7.983	7.955	8.015	0.087	3.4
Alachlor	1	6.635	6.607	6.667	0.11	
	2	6.418	6.390	6.450	0.099	19.2
Aldrin	1	6.549	6.520	6.580	0.085	
	2	6.499	6.471	6.531	0.083	2.4
alpha-BHC	1	5.776	5.747	5.807	0.081	
	2	5.725	5.696	5.756	0.080	1.2
alpha-Chlordane	1	7.185	7.158	7.218	0.082	
	2	7.166	7.138	7.198	0.084	2.4
beta-BHC	1	6.048	6.019	6.079	0.082	
	2	6.016	5.987	6.047	0.074	10.3
delta-BHC	1	6.176	6.147	6.207	0.086	
	2	6.221	6.192	6.252	0.083	3.6
Dieldrin	1	7.475	7.448	7.508	0.087	
	2	7.421	7.392	7.452	0.083	4.7
Endosulfan I	1	7.293	7.266	7.326	0.082	
	2	7.211	7.184	7.244	0.080	3.7
Endosulfan II	1	7.831	7.803	7.863	0.086	
	2	7.823	7.795	7.855	0.088	2.3
Endosulfan Sulfate	1	8.430	8.402	8.462	0.083	
	2	8.270	8.242	8.302	0.087	4.7
Endrin	1	7.658	7.630	7.690	0.085	
	2	7.658	7.629	7.689	0.086	1.2
Endrin Aldehyde	1	8.139	8.111	8.171	0.084	
	2	8.078	8.050	8.110	0.086	2.4
Endrin Ketone	1	8.606	8.579	8.639	0.088	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B206894-BSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.609	8.581	8.641	0.086	2.3
gamma-BHC (Lindane)	1	5.993	5.965	6.025	0.085	
	2	5.963	5.934	5.994	0.085	0.0
gamma-Chlordane	1	7.085	7.057	7.117	0.080	
	2	7.055	7.027	7.087	0.085	6.1
Heptachlor	1	6.330	6.301	6.361	0.082	
	2	6.269	6.240	6.300	0.087	5.9
Heptachlor Epoxide	1	6.993	6.965	7.025	0.082	
	2	6.916	6.888	6.948	0.082	0.0
Hexachlorobenzene	1	5.662	5.633	5.693	0.088	
	2	5.631	5.602	5.662	0.087	1.1
Methoxychlor	1	8.249	8.221	8.281	0.086	
	2	8.451	8.424	8.484	0.089	3.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B206966-BS1 Date(s) Analyzed: 07/01/2018 07/01/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B206966-BSD1 Date(s) Analyzed: 07/01/2018 07/01/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.13	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B207020-BS1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.197	0.000	0.000	11.1	
	2	15.774	0.000	0.000	9.96	9.9
2,4,5-TP (Silvex)	1	15.569	0.000	0.000	11.5	
	2	14.927	0.000	0.000	9.54	22.8
2,4-D	1	13.716	0.000	0.000	115	
	2	13.199	0.000	0.000	107	11.5
2,4-DB	1	16.987	0.000	0.000	105	
	2	16.767	0.000	0.000	92.7	17.1
Dalapon	1	4.580	0.000	0.000	199	
	2	4.068	0.000	0.000	182	9.4
Dicamba	1	11.581	0.000	0.000	11.1	
	2	11.012	0.000	0.000	10.2	7.6
Dichloroprop	1	13.200	0.000	0.000	119	
	2	12.522	0.000	0.000	109	9.6
Dinoseb	1	17.627	0.000	0.000	12.8	
	2	17.032	0.000	0.000	10.7	19.4
MCPA	1	12.405	0.000	0.000	11900	
	2	11.842	0.000	0.000	12100	0.8
MCPD	1	12.072	0.000	0.000	14700	
	2	11.352	0.000	0.000	11700	24.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8151A

Lab Sample ID: B207020-BSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.194	0.000	0.000	10.9	
	2	15.773	0.000	0.000	10.2	7.6
2,4,5-TP (Silvex)	1	15.567	0.000	0.000	11.1	
	2	14.926	0.000	0.000	9.80	11.5
2,4-D	1	13.714	0.000	0.000	113	
	2	13.198	0.000	0.000	108	1.8
2,4-DB	1	16.986	0.000	0.000	113	
	2	16.767	0.000	0.000	103	6.6
Dalapon	1	4.581	0.000	0.000	189	
	2	4.068	0.000	0.000	185	2.7
Dicamba	1	11.580	0.000	0.000	10.7	
	2	11.012	0.000	0.000	11.0	0.0
Dichloroprop	1	13.200	0.000	0.000	114	
	2	12.522	0.000	0.000	112	1.8
Dinoseb	1	17.625	0.000	0.000	10.9	
	2	17.030	0.000	0.000	9.18	18.0
MCPA	1	12.406	0.000	0.000	9940	
	2	11.841	0.000	0.000	11700	16.7
MCPD	1	12.071	0.000	0.000	14100	
	2	11.351	0.000	0.000	10300	30.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8151A

Lab Sample ID: B207020-MS1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.186	0.000	0.000	9.96	
	2	15.768	0.000	0.000	9.10	9.4
2,4,5-TP (Silvex)	1	15.562	0.000	0.000	10.1	
	2	14.923	0.000	0.000	9.49	5.2
2,4-D	1	13.711	0.000	0.000	105	
	2	13.196	0.000	0.000	107	2.8
2,4-DB	1	16.983	0.000	0.000	105	
	2	16.764	0.000	0.000	101	8.5
Dalapon	1	4.579	0.000	0.000	194	
	2	4.066	0.000	0.000	204	7.1
Dicamba	1	11.578	0.000	0.000	9.50	
	2	11.010	0.000	0.000	10.8	12.8
Dichloroprop	1	13.197	0.000	0.000	108	
	2	12.521	0.000	0.000	109	0.9
Dinoseb	1	17.624	0.000	0.000	21.6	
	2	17.029	0.000	0.000	17.4	23.4
MCPA	1	12.403	0.000	0.000	9470	
	2	11.838	0.000	0.000	8550	10.5
MCPD	1	12.068	0.000	0.000	13000	
	2	11.348	0.000	0.000	8790	38.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B207020-MSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.186	0.000	0.000	10.9	
	2	15.767	0.000	0.000	9.88	10.7
2,4,5-TP (Silvex)	1	15.562	0.000	0.000	11.2	
	2	14.922	0.000	0.000	10.1	8.5
2,4-D	1	13.709	0.000	0.000	115	
	2	13.196	0.000	0.000	112	6.9
2,4-DB	1	16.983	0.000	0.000	116	
	2	16.764	0.000	0.000	111	7.8
Dalapon	1	4.578	0.000	0.000	212	
	2	4.066	0.000	0.000	221	5.1
Dicamba	1	11.579	0.000	0.000	10.2	
	2	11.010	0.000	0.000	11.3	12.2
Dichloroprop	1	13.197	0.000	0.000	116	
	2	12.521	0.000	0.000	116	3.4
Dinoseb	1	17.625	0.000	0.000	22.7	
	2	17.030	0.000	0.000	18.0	24.4
MCPA	1	12.403	0.000	0.000	10400	
	2	11.839	0.000	0.000	9880	1.2
MCPD	1	12.069	0.000	0.000	14200	
	2	11.349	0.000	0.000	9510	38.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B207027-MS1 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.748	7.720	7.780	0.11	
	2	7.681	7.653	7.713	0.099	10.5
4,4'-DDE	1	7.282	7.254	7.314	0.095	
	2	7.234	7.205	7.265	0.095	0.0
4,4'-DDT	1	7.964	7.936	7.996	0.10	
	2	7.927	7.899	7.959	0.089	11.6
Alachlor	1	6.682	6.652	6.712	0.091	
	2	6.367	6.338	6.398	0.097	6.4
Aldrin	1	6.593	6.563	6.623	0.079	
	2	6.446	6.417	6.477	0.087	9.6
alpha-BHC	1	5.811	5.782	5.842	0.060	
	2	5.681	5.652	5.712	0.065	8.0
beta-BHC	1	6.089	6.060	6.120	0.069	
	2	5.970	5.940	6.000	0.074	7.0
delta-BHC	1	6.219	6.190	6.250	0.071	
	2	6.172	6.142	6.202	0.082	14.4
Dieldrin	1	7.531	7.502	7.562	0.096	
	2	7.361	7.333	7.393	0.088	8.7
Endosulfan I	1	7.347	7.318	7.378	0.087	
	2	7.152	7.124	7.184	0.085	2.3
Endosulfan II	1	7.890	7.861	7.921	0.095	
	2	7.762	7.733	7.793	0.091	4.3
Endosulfan Sulfate	1	8.480	8.452	8.512	0.097	
	2	8.219	8.191	8.251	0.087	10.9
Endrin	1	7.714	7.686	7.746	0.093	
	2	7.596	7.568	7.628	0.087	6.7
Endrin Aldehyde	1	8.193	8.165	8.225	0.087	
	2	8.023	7.995	8.055	0.086	1.2
Endrin Ketone	1	8.653	8.626	8.686	0.10	
	2	8.563	8.534	8.594	0.088	12.8
gamma-BHC (Lindane)	1	6.032	6.003	6.063	0.065	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8081B

Lab Sample ID: B207027-MS1 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.916	5.887	5.947	0.073	11.6
Heptachlor	1	6.371	6.342	6.402	0.072	
	2	6.217	6.188	6.248	0.082	13.0
Heptachlor Epoxide	1	7.043	7.015	7.075	0.081	
	2	6.859	6.831	6.891	0.090	10.5
Hexachlorobenzene	1	5.694	5.664	5.724	0.082	
	2	5.588	5.559	5.619	0.088	7.1
Methoxychlor	1	8.294	8.266	8.326	0.10	
	2	8.407	8.379	8.439	0.094	6.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B207027-MSD1 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.747	7.720	7.780	0.092	
	2	7.681	7.653	7.713	0.089	3.3
4,4'-DDE	1	7.281	7.254	7.314	0.083	
	2	7.233	7.205	7.265	0.084	1.2
4,4'-DDT	1	7.963	7.936	7.996	0.092	
	2	7.927	7.899	7.959	0.082	11.5
Alachlor	1	6.681	6.652	6.712	0.085	
	2	6.367	6.338	6.398	0.087	2.3
Aldrin	1	6.592	6.563	6.623	0.069	
	2	6.445	6.417	6.477	0.076	9.7
alpha-BHC	1	5.810	5.782	5.842	0.050	
	2	5.680	5.652	5.712	0.054	7.7
beta-BHC	1	6.088	6.060	6.120	0.056	
	2	5.970	5.940	6.000	0.061	8.6
delta-BHC	1	6.218	6.190	6.250	0.060	
	2	6.171	6.142	6.202	0.069	14.0
Dieldrin	1	7.530	7.502	7.562	0.082	
	2	7.361	7.333	7.393	0.076	7.6
Endosulfan I	1	7.346	7.318	7.378	0.076	
	2	7.153	7.124	7.184	0.071	6.8
Endosulfan II	1	7.888	7.861	7.921	0.082	
	2	7.762	7.733	7.793	0.081	1.2
Endosulfan Sulfate	1	8.480	8.452	8.512	0.081	
	2	8.219	8.191	8.251	0.075	7.7
Endrin	1	7.714	7.686	7.746	0.080	
	2	7.596	7.568	7.628	0.076	5.1
Endrin Aldehyde	1	8.192	8.165	8.225	0.070	
	2	8.022	7.995	8.055	0.075	6.9
Endrin Ketone	1	8.653	8.626	8.686	0.086	
	2	8.562	8.534	8.594	0.074	15.0
gamma-BHC (Lindane)	1	6.031	6.003	6.063	0.054	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B207027-MSD1 Date(s) Analyzed: 07/06/2018 07/06/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.915	5.887	5.947	0.061	12.2
Heptachlor	1	6.370	6.342	6.402	0.063	
	2	6.216	6.188	6.248	0.072	13.3
Heptachlor Epoxide	1	7.043	7.015	7.075	0.070	
	2	6.860	6.831	6.891	0.080	13.3
Hexachlorobenzene	1	5.692	5.664	5.724	0.071	
	2	5.588	5.559	5.619	0.076	6.8
Methoxychlor	1	8.294	8.266	8.326	0.091	
	2	8.406	8.379	8.439	0.083	9.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B207028-BS1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.24	8.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B207028-BSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.19	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.20	4.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B207028-MS1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.22	4.7
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B207028-MSD1 Date(s) Analyzed: 07/03/2018 07/03/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.20	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
H-09	Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.
H-13	Sample analysis performed past the recommended holding time due to a laboratory error.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8151A in Soil</i>	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Soil	
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com



18F1479

Address: VHB
Phone: 607-607-1891
Project Location: Hudsonville, MI
Project Number: 17470-00
Project Manager: Sami Mohanloy

Con-Test Quote Name/Number: PEC

Invoice Recipient: VHB

Sampled By: PEC

Relinquished by (signature): [Signature]

Received by (signature): [Signature]

Relinquished by (signature): [Signature]

Received by (signature): [Signature]

Relinquished by (signature): [Signature]

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Received by (signature): [Signature]

Relinquished by (signature): [Signature]

Received by (signature): [Signature]

Page 1 of 1

39 Spruce Street
East Longmeadow, MA 01028

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Compliance	Container Code	Matrix Code	Conc. Code	Conc. Code
SB14	6/25/18 13:00	6/25/18 13:00	X	X	S	V	V
MPI5	6/15/18 12:00	6/15/18 12:00	X	X	S	V	V
SR55	6/21/18 11:00	6/21/18 11:00	X	X	S	V	V
MPI	6/26/18 11:35	6/26/18 11:35	X	X	S	V	V
SB14	6/27/18 10:10	6/27/18 10:10	X	X	S	V	V
SR55	6/27/18 11:50	6/27/18 11:50	X	X	S	V	V
MPI7	6/27/18 14:30	6/27/18 14:30	X	X	S	V	V
MPI9	6/27/18 9:30	6/27/18 9:30	X	X	S	V	V

ANALYSIS REQUESTED
 VOCs, MWRA, MCLs, TRH
 VOCs, PCB, TRH
 PCB, Meth
 Conductivity, PH
 Reactivity, Conductivity

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

www.contestlabs.com

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State 209 Required

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MFTA
 Chromatogram
 AIHA-LAP, LLC
 Other

70x rule for TCLP
 DI Frozen at day of generation

Date/Time	Signature
6/28/18 10:15	[Signature]
6/28/18 10:15	[Signature]
6/29/18 8:40	[Signature]
6/29/18 18:40	[Signature]
	[Signature]
	[Signature]
	[Signature]
	[Signature]



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By SE Date 6/29/18 Time 1840

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 8 Actual Temp - 3.4
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? FF * SE 6/29/18
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F
 Are there Rushes? F
 Are there Short Holds? T
 Is there enough Volume? T
 Is there Headspace where applicable? N/A
 Proper Media/Containers Used? T
 Were trip blanks received? F
 Do all samples have the proper pH? N/A Acid _____ Base _____

Who was notified? _____
 Who was notified? _____
 Who was notified? Lake

MS/MSD? F
 Is splitting samples required? F
 On COC? F

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	<u>8</u>	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	<u>16</u>	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: <u>6/29/18 @ 1840</u>
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

* Sample # 2 past hold

July 30, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18G0203

Enclosed are results of analyses for samples received by the laboratory on July 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent initial 'K'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 7/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18G0203

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B24	18G0203-01	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B25	18G0203-02	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B26	18G0203-03	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO
B27	18G0203-04	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Tod Kopyscinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B24

Sampled: 6/28/2018 10:30

Sample ID: 18G0203-01

Sample Matrix: Soil

Grain Size

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Sampled: 6/28/2018 10:30

Field Sample #: B24

Sample ID: 18G0203-01

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		7/27/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B25

Sampled: 7/2/2018 09:00

Sample ID: 18G0203-02

Sample Matrix: Soil

Grain Size

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B25

Sampled: 7/2/2018 09:00

Sample ID: 18G0203-02

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		7/27/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B26

Sampled: 7/3/2018 11:00

Sample ID: 18G0203-03

Sample Matrix: Soil

Grain Size

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B26

Sampled: 7/3/2018 11:00

Sample ID: 18G0203-03

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		7/27/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B27

Sampled: 7/3/2018 13:00

Sample ID: 18G0203-04

Sample Matrix: Soil

Grain Size

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0203

Date Received: 7/6/2018

Field Sample #: B27

Sampled: 7/3/2018 13:00

Sample ID: 18G0203-04

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		7/27/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
---------	----------------

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

860203
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



Address: 39 SPRUCE STREET, EAST LONGMEADOW, MA 01028
 Phone: (413) 525-2332
 Project Location: HUNTER HILL
 Project Number: 1291000
 Project Manager: PAUL MORGAN
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: PEC

Con-Test Work Order	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	B24	6/25/18	10:30	X	X	S	V
02	B25	7/2/18	9:00	X	X	S	V
03	B26	7/13/18	11:00	X	X	S	V
04	B27	7/13/18	13:00	X	X	S	V

Comments:
 * PLEASE RETURN B26 TO THE UNDERGROUND OFFICE FOLLOWING ANALYSIS

ANALYSIS REQUESTED

Ground Site
 Pesticides
 Moisture

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thioculfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet

Chromatogram
 AFHA-LAP, LLC

Other
 WRTA
 MWRA
 School
 MBTA
 Municipality
 City
 Government
 Federal

Project Entity
 City
 Federal
 Government
 Municipality
 School
 MBTA
 WRTA
 MWRA

Relinquished by: (signature)
 Received by: (signature)
 Relinquished by: (signature)
 Received by: (signature)

Date/Time: 7/16/18 11:21
 Date/Time: 7/16/18 11:21
 Date/Time: 7/16/18 11:21
 Date/Time: 7/16/18 11:21
 Date/Time: 7/16/18 11:21

MA MFC Required
 MFC Certification Form Required
 CT RCP Required
 RCP Certifications Form Required
 MA State Lab Required

con-test ANALYTICAL LABORATORY
 www.con-testlabs.com



Client:	Con-Test Analytical Lab		Project No:	GTX-308442
Project:	18G0203		Tested By:	jbr
Location:	Hudson, MA		Checked By:	emm
Boring ID:	---	Sample Type:	---	
Sample ID:	---	Test Date:	07/27/18	
Depth :	---	Test Id:	462046	

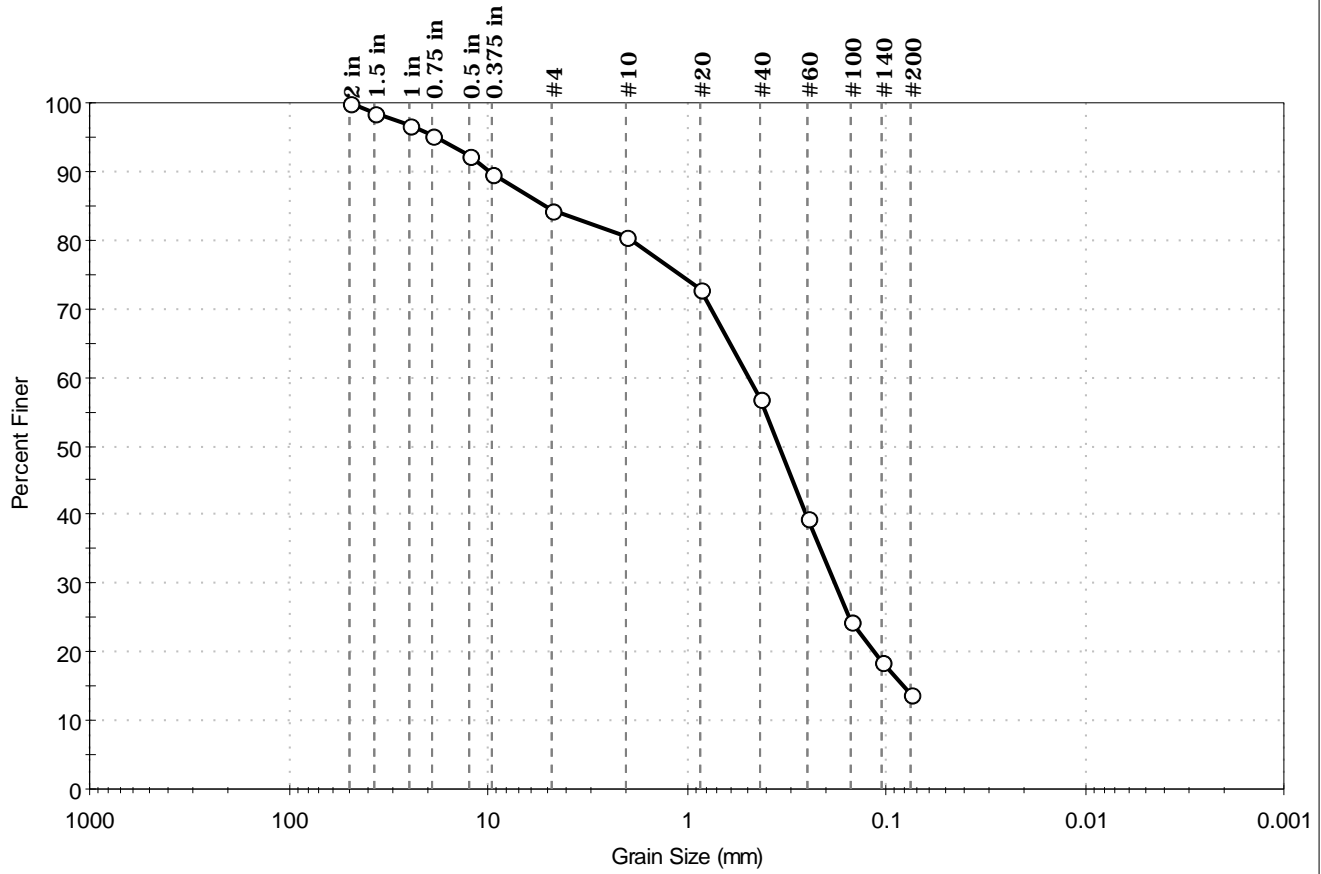
Moisture Content of Soil and Rock - ASTM D2216

Boring ID	Sample ID	Depth	Description	Moisture Content, %
---	B24	---	Moist, olive brown silty sand with gravel	24.2
---	B25	---	Moist, dark yellowish brown sand with gravel	8.1
---	B26	---	Moist, olive brown sand with silt	13.1
---	B27	---	Moist, olive brown sand with silt	16.2

Notes: Temperature of Drying : 110° Celsius

Client:	Con-Test Analytical Lab		
Project:	18G0203		
Location:	Hudson, MA	Project No:	GTX-308442
Boring ID:	---	Sample Type:	bucket
Sample ID:	B24	Test Date:	07/27/18
Depth:	---	Test Id:	462051
Test Comment:	---		
Visual Description:	Moist, olive brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	15.7	70.6	13.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	98		
1 in	25.00	97		
0.75 in	19.00	95		
0.5 in	12.50	92		
0.375 in	9.50	90		
#4	4.75	84		
#10	2.00	81		
#20	0.85	73		
#40	0.42	57		
#60	0.25	40		
#100	0.15	25		
#140	0.11	18		
#200	0.075	14		

<u>Coefficients</u>	
D ₈₅ = 5.2007 mm	D ₃₀ = 0.1803 mm
D ₆₀ = 0.4868 mm	D ₁₅ = 0.0822 mm
D ₅₀ = 0.3441 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

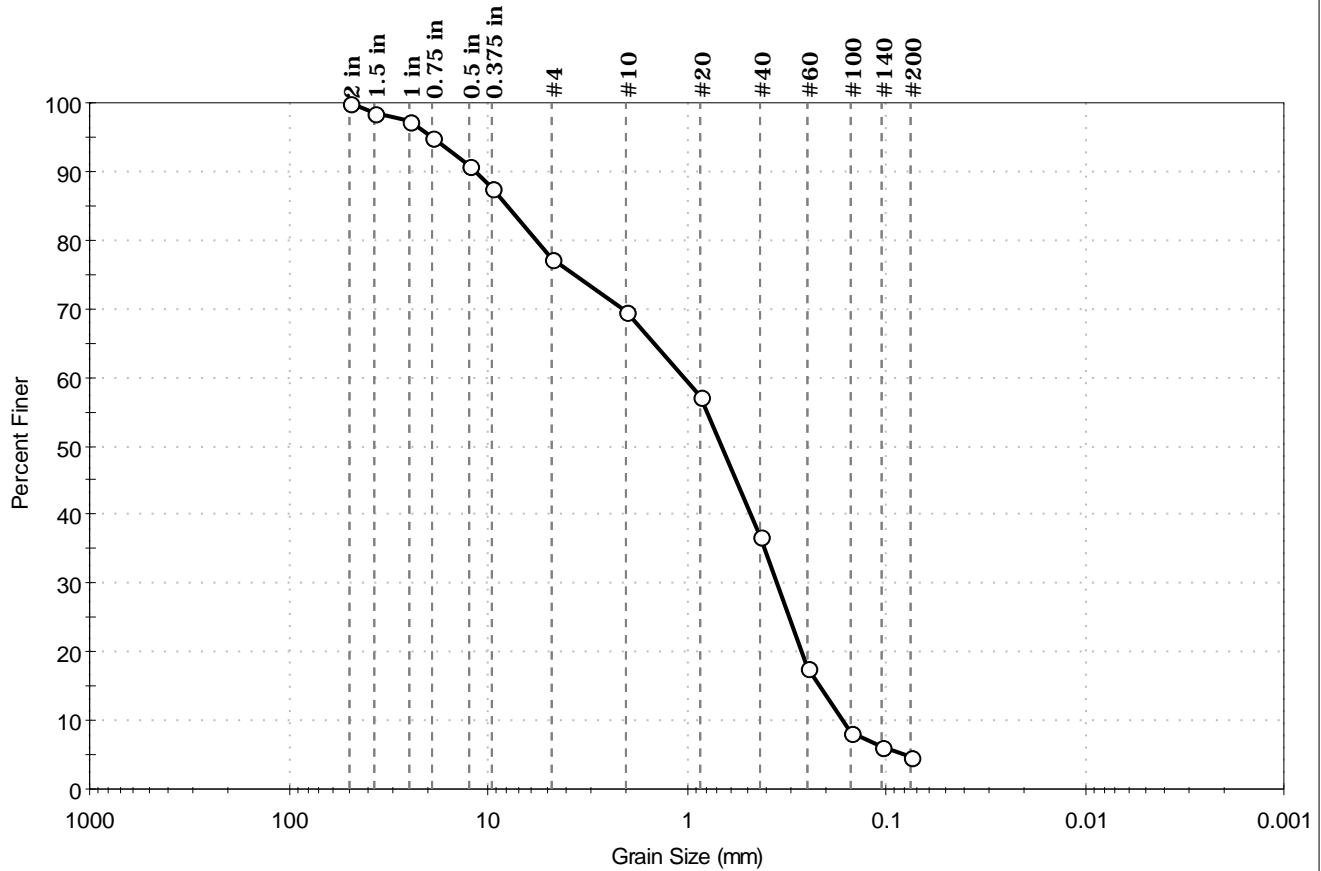
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308442
Project:	18G0203	Sample Type:	bucket
Location:	Hudson, MA	Tested By:	jbr
Boring ID:	---	Test Date:	07/27/18
Sample ID:	B25	Checked By:	emm
Depth:	---	Test Id:	462052
Test Comment:	---		
Visual Description:	Moist, dark yellowish brown sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	22.6	72.6	4.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	98		
1 in	25.00	97		
0.75 in	19.00	95		
0.5 in	12.50	91		
0.375 in	9.50	88		
#4	4.75	77		
#10	2.00	70		
#20	0.85	57		
#40	0.42	37		
#60	0.25	18		
#100	0.15	8		
#140	0.11	6		
#200	0.075	4.8		

<u>Coefficients</u>	
D ₈₅ = 7.9926 mm	D ₃₀ = 0.3514 mm
D ₆₀ = 1.0381 mm	D ₁₅ = 0.2157 mm
D ₅₀ = 0.6665 mm	D ₁₀ = 0.1640 mm
C _u = 6.330	C _c = 0.725

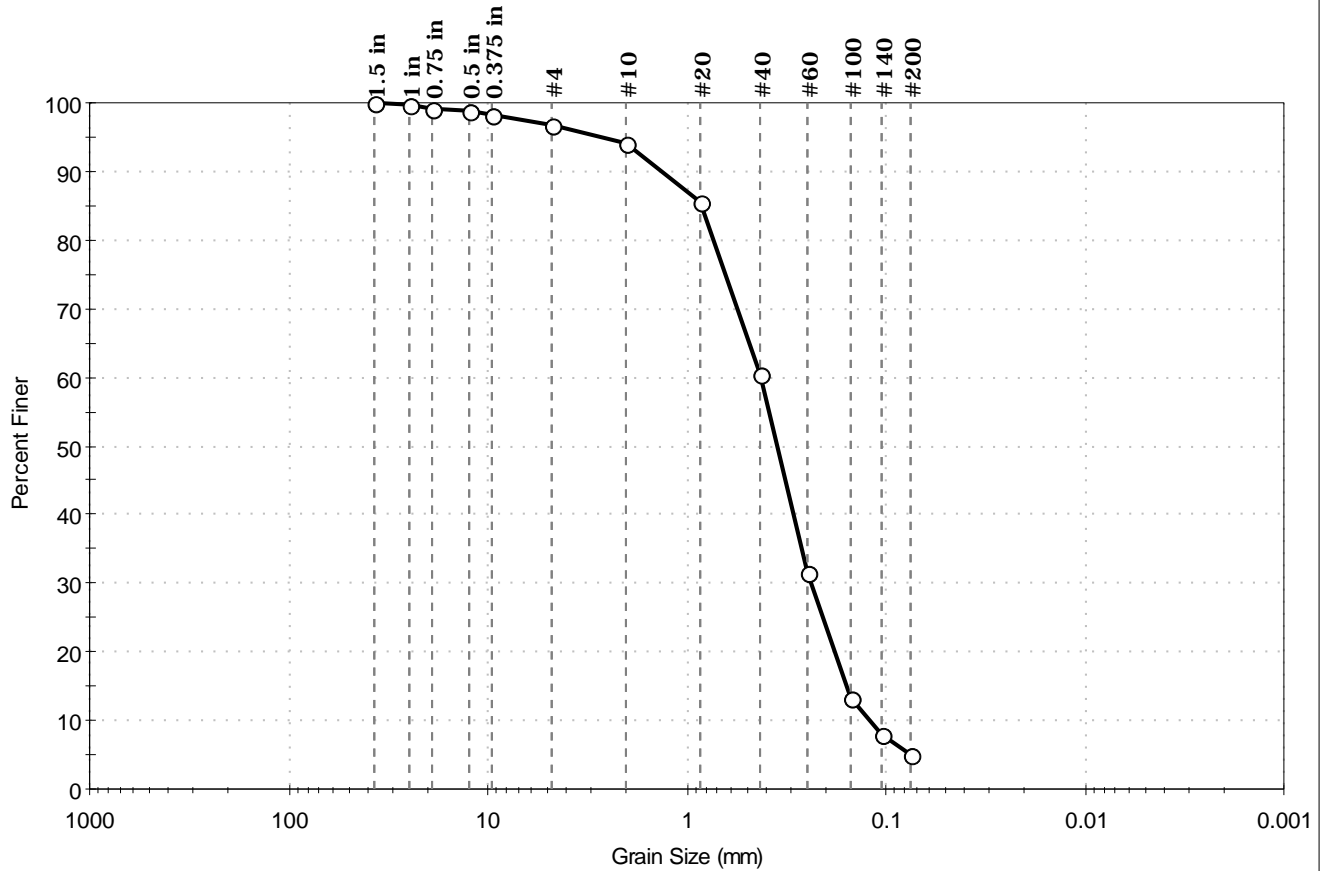
<u>Classification</u>	
<u>ASTM</u>	Poorly graded SAND with Gravel (SP)
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-b (1))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client:	Con-Test Analytical Lab	Project No:	GTX-308442
Project:	18G0203	Tested By:	jbr
Location:	Hudson, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B26	Test Date:	07/27/18
Depth:	---	Test Id:	462053
Test Comment:	---		
Visual Description:	Moist, olive brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	3.4	91.6	5.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	99		
0.375 in	9.50	98		
#4	4.75	97		
#10	2.00	94		
#20	0.85	85		
#40	0.42	61		
#60	0.25	32		
#100	0.15	13		
#140	0.11	8		
#200	0.075	5.0		

Coefficients

D ₈₅ = 0.8401 mm	D ₃₀ = 0.2386 mm
D ₆₀ = 0.4203 mm	D ₁₅ = 0.1570 mm
D ₅₀ = 0.3499 mm	D ₁₀ = 0.1214 mm
C _u = 3.462	C _c = 1.116

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (1))

Sample/Test Description

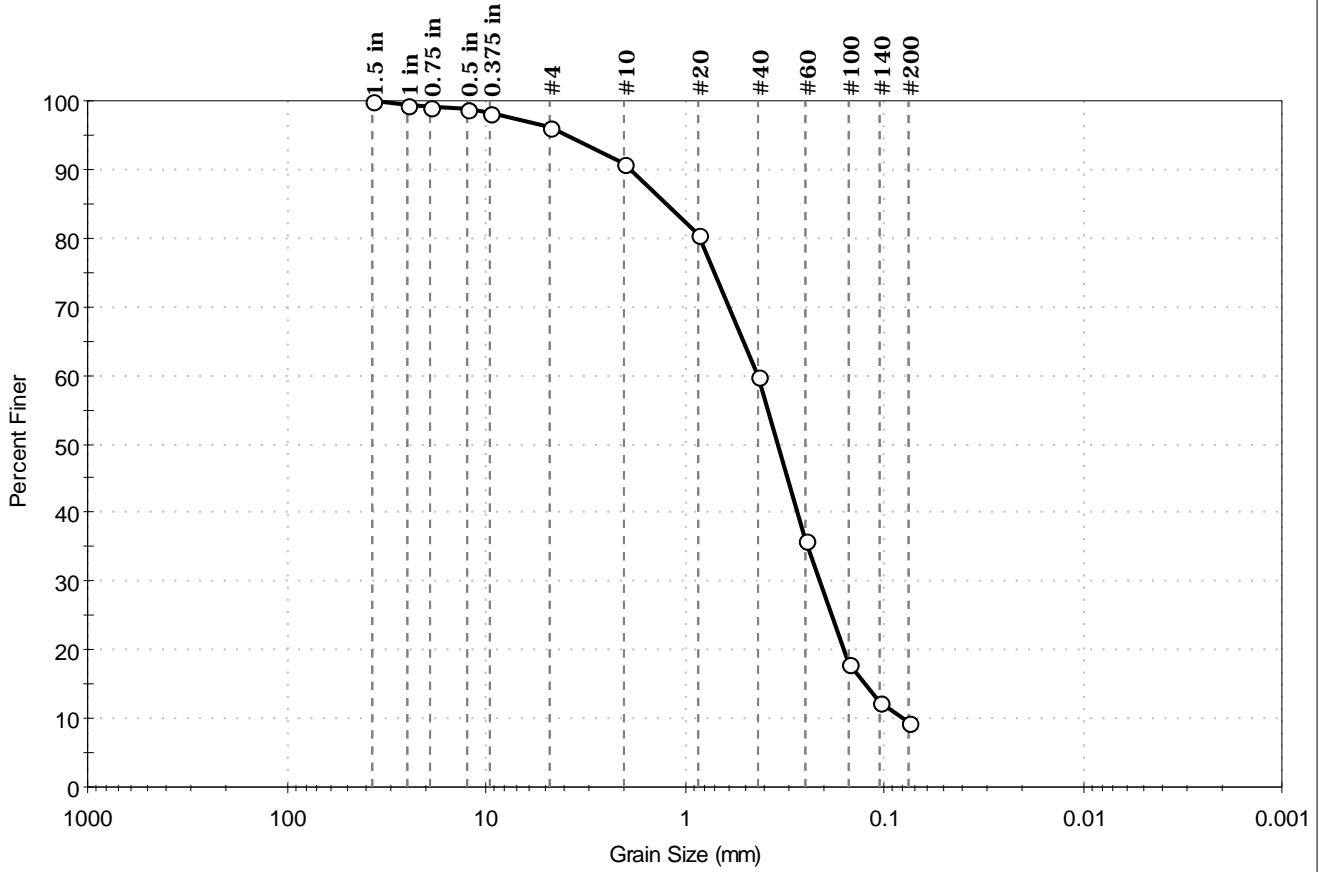
Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab	Project No:	GTX-308442
Project:	18G0203	Tested By:	jbr
Location:	Hudson, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B27	Test Date:	07/27/18
Depth:	---	Test Id:	462054
Test Comment:	---		
Visual Description:	Moist, olive brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	3.9	86.5	9.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	100		
0.75 in	19.00	99		
0.5 in	12.50	99		
0.375 in	9.50	98		
#4	4.75	96		
#10	2.00	91		
#20	0.85	81		
#40	0.42	60		
#60	0.25	36		
#100	0.15	18		
#140	0.11	12		
#200	0.075	9.6		

Coefficients

D ₈₅ = 1.2326 mm	D ₃₀ = 0.2108 mm
D ₆₀ = 0.4267 mm	D ₁₅ = 0.1242 mm
D ₅₀ = 0.3413 mm	D ₁₀ = 0.0789 mm
C _u = 5.408	C _c = 1.320

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (1))

Sample/Test Description

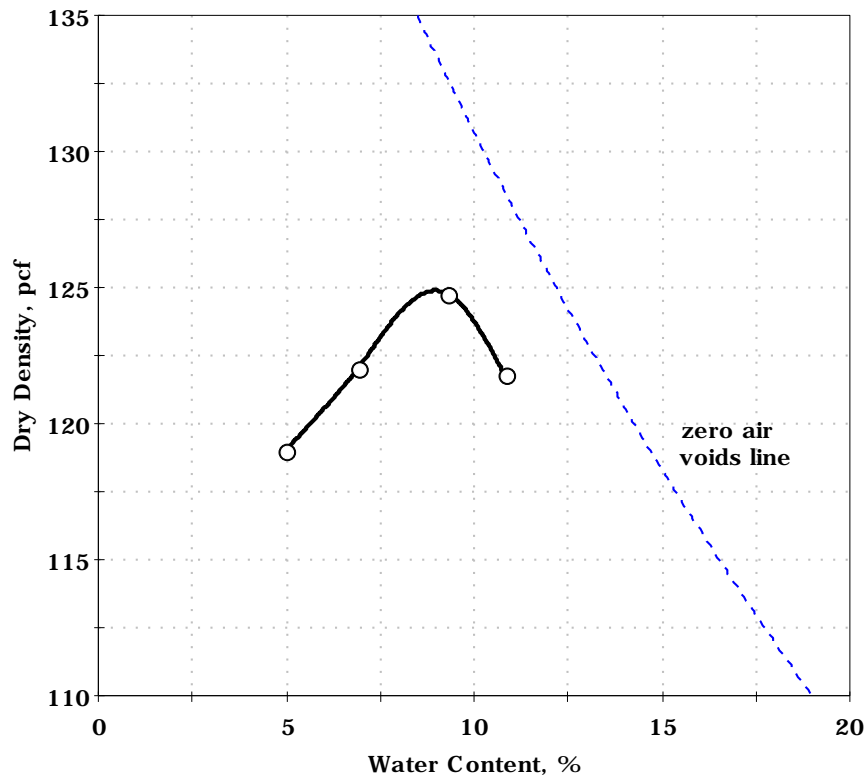
Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD



Client:	Con-Test Analytical Lab		Project No:	GTX-308442	
Project:	18G0203		Tested By:	cwd	
Location:	Hudson, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	07/27/18	Test Id:	462047
Sample ID:	B24	Visual Description:	Moist, olive brown silty sand with gravel		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	119.0	122.0	124.8	121.8
Moisture Content, %	5.0	6.9	9.3	10.8

Method : C

Preparation : DRY

As received Moisture : 24 %

Rammer : Mechanical

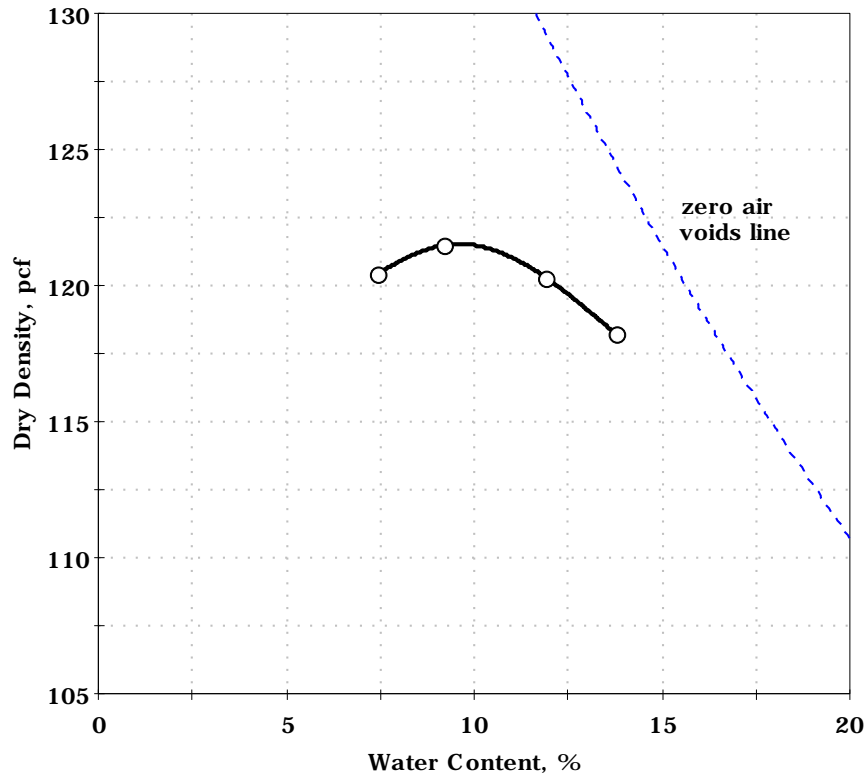
Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 124.9 pcf
Optimum Moisture= 9.0 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308442	
Project:	18G0203		Tested By:	cwd	
Location:	Hudson, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	07/27/18	Test Id:	462048
Sample ID:	B25	Visual Description:	Moist, dark yellowish brown sand with gravel		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	120.4	121.5	120.3	118.3
Moisture Content, %	7.4	9.2	11.9	13.7

Method : C

Preparation : DRY

As received Moisture : 8 %

Rammer : Mechanical

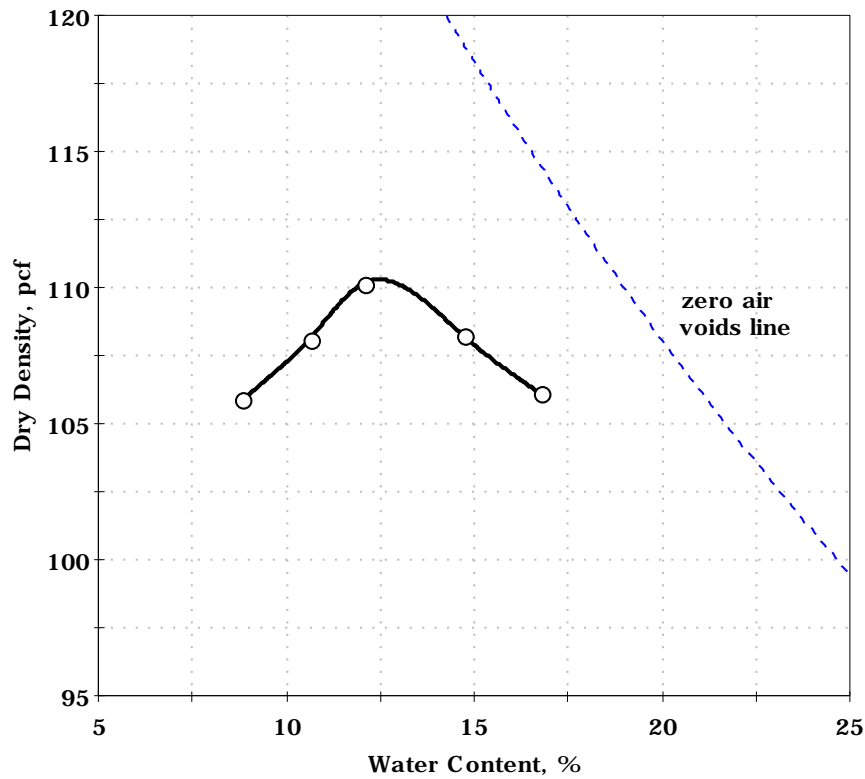
Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 121.5 pcf
Optimum Moisture= 9.6 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308442	
Project:	18G0203		Tested By:	cwd	
Location:	Hudson, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	07/27/18	Test Id:	462049
Sample ID:	B26	Visual Description:	Moist, olive brown sand with silt		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4	Point 5
Dry density, pcf	105.9	108.1	110.2	108.2	106.1
Moisture Content, %	8.8	10.6	12.1	14.7	16.7

Method : A

Preparation : DRY

As received Moisture : 13 %

Rammer : Mechanical

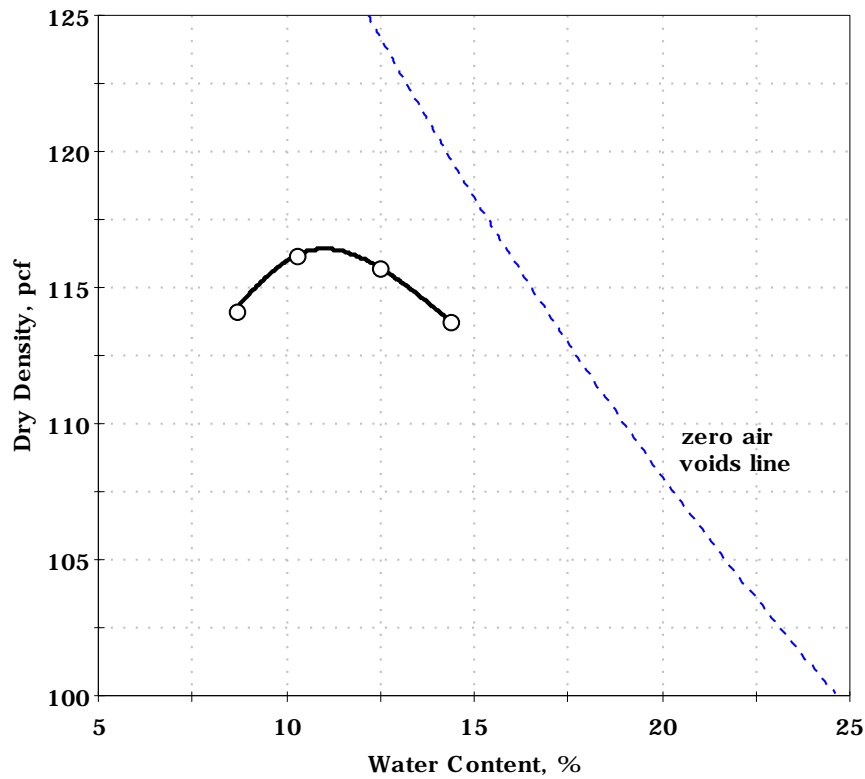
Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 110.3 pcf
Optimum Moisture= 12.5 %



Client:	Con-Test Analytical Lab		Project No:	GTX-308442	
Project:	18G0203		Tested By:	cwd	
Location:	Hudson, MA	Sample Type:	bucket	Checked By:	emm
Boring ID:	---	Test Date:	07/27/18	Test Id:	462050
Sample ID:	B27	Visual Description:	Moist, olive brown sand with silt		
Depth:	---	Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	114.2	116.2	115.7	113.8
Moisture Content, %	8.6	10.3	12.5	14.3

Method : A

Preparation : DRY

As received Moisture : 16 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.65

Maximum Dry Density= 116.4 pcf
Optimum Moisture= 11.0 %

July 31, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18G0679

Enclosed are results of analyses for samples received by the laboratory on July 18, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 7/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18G0679

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
B13	18G0679-01	Soil		-	GAI-LAP-20-1996/AASH TO
				ASTM D1557	GAI-LAP-20-1996/AASH TO
				ASTM D2216	GAI-LAP-20-1996/AASH TO
				ASTM D6913	GAI-LAP-20-1996/AASH TO
				SM D 422-63	GAI-LAP-20-1996/AASH TO

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Tod Kopycinski". The signature is written in a cursive style with a large, sweeping initial "T".

Tod E. Kopycinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0679

Date Received: 7/18/2018

Sampled: 7/13/2018 12:00

Field Sample #: B13

Sample ID: 18G0679-01

Sample Matrix: Soil

Grain Size

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Subcontracted Report	Attached		Attached	1		ASTM D6913		7/27/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18G0679

Date Received: 7/18/2018

Sampled: 7/13/2018 12:00

Field Sample #: B13

Sample ID: 18G0679-01

Sample Matrix: Soil

Miscellaneous Test

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	Attached		Attached	1		ASTM D2216		7/30/18 0:00	GTE
See Attached Report Pages	Attached		Attached	1		ASTM D1557		7/30/18 0:00	GTE

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



Client:	Con-Test Analytical Lab		
Project:	Eversource		
Location:	Hudson, MA	Project No:	GTX-308480
Boring ID:	---	Sample Type:	bucket
Sample ID:	B13	Test Date:	07/30/18
Depth :	---	Test Id:	463976
Test Comment:	---		
Visual Description:	Moist, dark yellowish brown sand with silt and gravel		
Sample Comment:	---		

Moisture Content of Soil and Rock - ASTM D2216

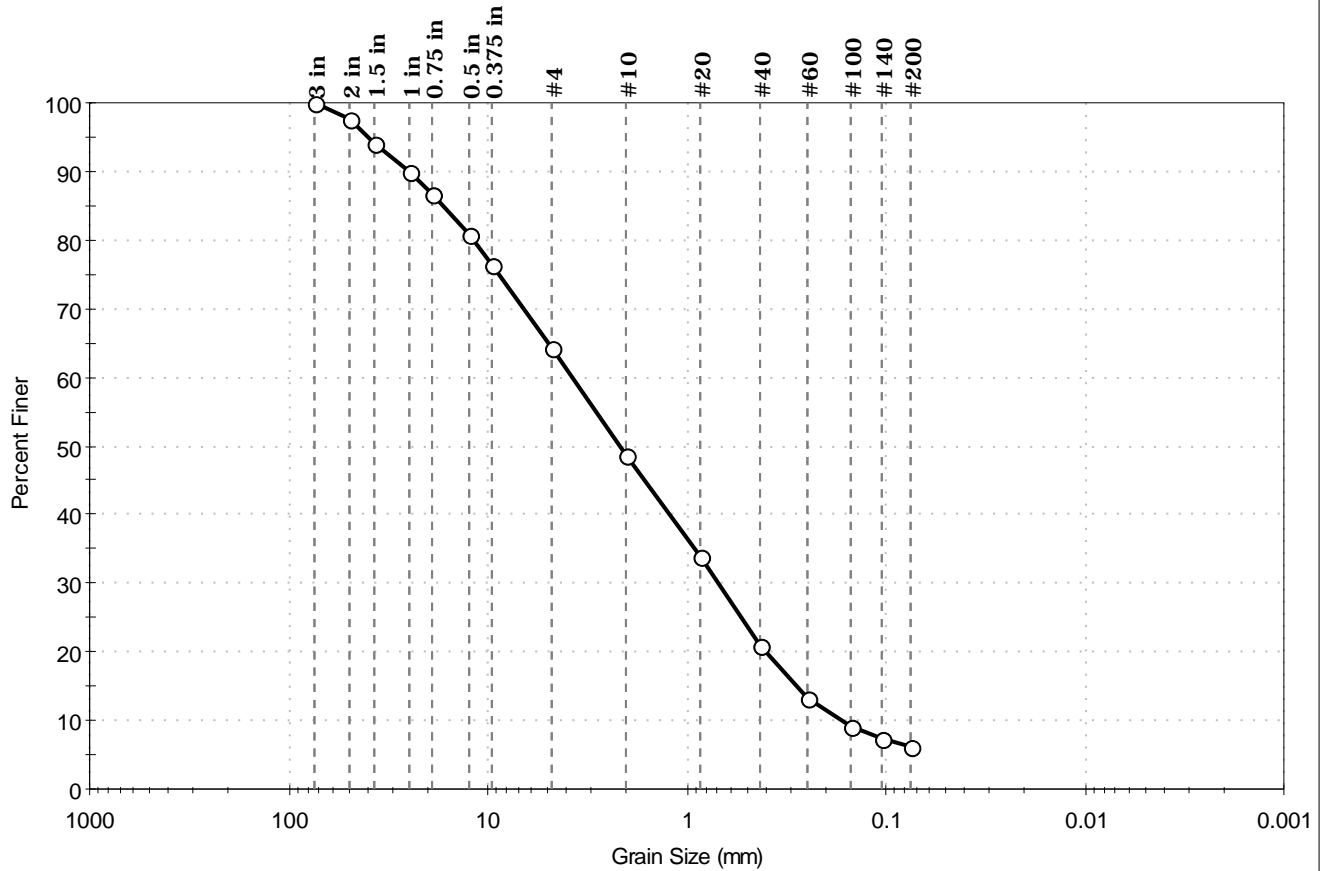
Boring ID	Sample ID	Depth	Description	Moisture Content, %
---	B13	---	Moist, dark yellowish brown sand with silt and gravel	3.5

Notes: Temperature of Drying : 110° Celsius



Client:	Con-Test Analytical Lab	Project No:	GTX-308480
Project:	Eversource	Tested By:	jbr
Location:	Hudson, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B13	Test Date:	07/27/18
Depth:	---	Test Id:	463975
Test Comment:	---		
Visual Description:	Moist, dark yellowish brown sand with silt and gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	35.6	58.3	6.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3 in	75.00	100		
2 in	50.00	98		
1.5 in	37.50	94		
1 in	25.00	90		
0.75 in	19.00	87		
0.5 in	12.50	81		
0.375 in	9.50	76		
#4	4.75	64		
#10	2.00	49		
#20	0.85	34		
#40	0.42	21		
#60	0.25	13		
#100	0.15	9		
#140	0.11	7		
#200	0.075	6.1		

<u>Coefficients</u>	
D ₈₅ = 16.7431 mm	D ₃₀ = 0.6908 mm
D ₆₀ = 3.7240 mm	D ₁₅ = 0.2821 mm
D ₅₀ = 2.1438 mm	D ₁₀ = 0.1690 mm
C _u = 22.036	C _c = 0.758

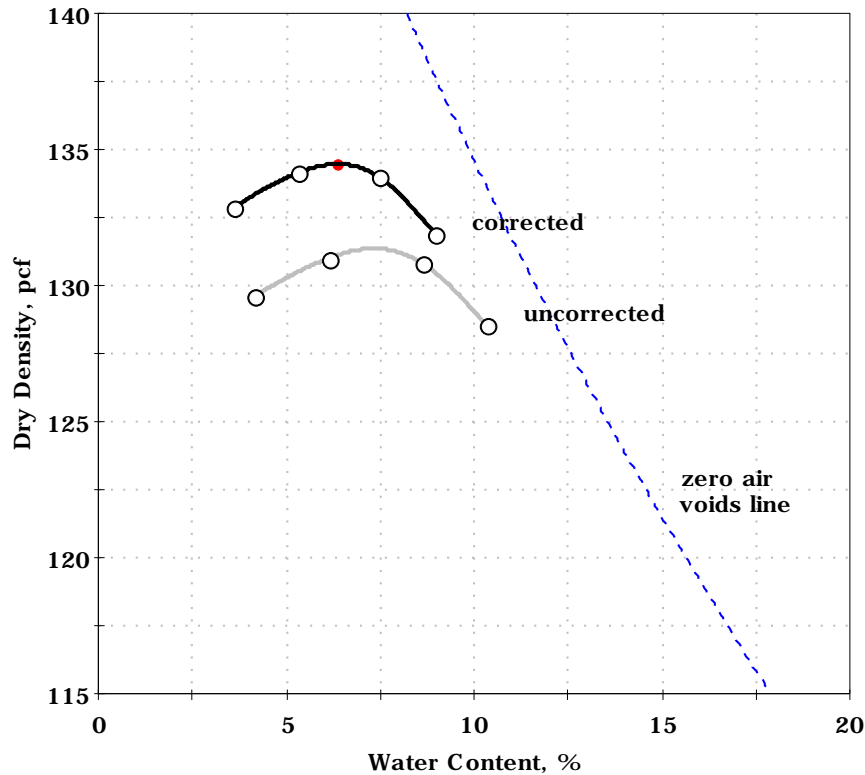
<u>Classification</u>	
<u>ASTM</u>	N/A
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-a (1))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ROUNDED	
Sand/Gravel Hardness : HARD	



Client:	Con-Test Analytical Lab	Project No:	GTX-308480
Project:	Eversource	Tested By:	cwd
Location:	Hudson, MA	Checked By:	emm
Boring ID:	---	Sample Type:	bucket
Sample ID:	B13	Test Date:	07/30/18
Depth:	---	Test Id:	463977
Test Comment:	---		
Visual Description:	Moist, dark yellowish brown sand with silt and gravel		
Sample Comment:	---		

Compaction Report - ASTM D1557



Data Points	Point 1	Point 2	Point 3	Point 4
Dry density, pcf	129.6	131.0	130.8	128.5
Moisture Content, %	4.2	6.1	8.6	10.3

Method : C

Preparation : WET

As received Moisture : 4 %

Rammer : Mechanical

Zero voids line based on assumed specific gravity of 2.75

Maximum Dry Density= 131.4 pcf
Optimum Moisture= 7.3 %

Oversize Correction (13% > 3/4 inch Sieve)

Corrected Maximum Dry Density= 134.5 pcf
Corrected Optimum Moisture= 6.4 %
Assumed Average Bulk Specific Gravity = 2.55

August 10, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H0015

Enclosed are results of analyses for samples received by the laboratory on August 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent 'K' and 'M'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/10/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0015

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-2	18H0015-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 08/07/18

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0015-01[MP-2]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4,4'-DDD [2C]**

B209437-BS1, B209437-BSD1

4,4'-DDE [2C]

B209437-BS1, B209437-BSD1

4,4'-DDT [2C]

B209437-BS1, B209437-BSD1

Aldrin [2C]

B209437-BS1, B209437-BSD1

alpha-BHC [2C]

B209437-BS1, B209437-BSD1

delta-BHC [2C]

B209437-BS1, B209437-BSD1

Dieldrin [2C]

B209437-BS1, B209437-BSD1

Endrin [2C]

B209437-BS1, B209437-BSD1

gamma-BHC (Lindane) [2C]

B209437-BS1, B209437-BSD1

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18H0015-01[MP-2]

SW-846 8100 Modified

Qualifications:**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18H0015-01[MP-2]

SW-846 8151A

Qualifications:**R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18H0015-01[MP-2], B209432-BLK1, B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

Dinoseb [2C]

18H0015-01[MP-2], B209432-BLK1, B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**MCPA**

B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

MCPP

B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dinoseb**

B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

Dinoseb [2C]

B209432-BS1, B209432-BSD1, B209432-MS1, B209432-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18H0015-01[MP-2]

SW-846 8260C

Qualifications:**V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

18H0015-01[MP-2], B209508-BLK1, B209508-BS1, B209508-BSD1, S025887-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**Tetrahydrofuran**

18H0015-01[MP-2], B209508-BLK1, B209508-BS1, B209508-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0015-01[MP-2], B209508-BLK1, B209508-BS1, B209508-BSD1, S025887-CCV1

Dichlorodifluoromethane (Freon 12)

18H0015-01[MP-2], B209508-BLK1, B209508-BS1, B209508-BSD1, S025887-CCV1

SW-846 8270D

Qualifications:**L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aniline**

B209374-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

18H0015-01[MP-2]

Aniline

18H0015-01[MP-2]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bis(2-Ethylhexyl)phthalate**

18H0015-01[MP-2]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18H0015-01[MP-2], B209374-BLK1, B209374-BS1, B209374-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18H0015-01[MP-2]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1	V-34	SW-846 8260C	8/3/18	8/3/18 23:30	MFF
2-Butanone (MEK)	ND	0.033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Carbon Disulfide	ND	0.0049	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Chloroform	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1-Dichloroethylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
trans-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Naphthalene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1	V-16	SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
m+p Xylene	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/3/18	8/3/18 23:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.8	70-130	8/3/18 23:30
Toluene-d8	99.6	70-130	8/3/18 23:30
4-Bromofluorobenzene	98.6	70-130	8/3/18 23:30

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Acenaphthylene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Aniline	ND	0.37	mg/Kg dry	1	V-05	SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Anthracene	0.45	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Benzo(a)anthracene	2.5	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Benzo(a)pyrene	2.8	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Benzo(b)fluoranthene	3.3	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Benzo(g,h,i)perylene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Benzo(k)fluoranthene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1	V-06	SW-846 8270D	8/2/18	8/8/18 0:27	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	V-34	SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Chrysene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Dibenz(a,h)anthracene	0.48	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	V-05	SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Fluoranthene	4.4	0.37	mg/Kg dry	2		SW-846 8270D	8/2/18	8/9/18 9:03	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Indeno(1,2,3-cd)pyrene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Phenanthrene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
Pyrene	4.5	0.37	mg/Kg dry	2		SW-846 8270D	8/2/18	8/9/18 9:03	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/2/18	8/8/18 0:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	58.0	30-130	
2-Fluorophenol	57.4	30-130	
Phenol-d6	61.8	30-130	
Phenol-d6	63.1	30-130	
Nitrobenzene-d5	64.8	30-130	
Nitrobenzene-d5	65.3	30-130	
2-Fluorobiphenyl	69.9	30-130	
2-Fluorobiphenyl	66.4	30-130	
2,4,6-Tribromophenol	62.4	30-130	
2,4,6-Tribromophenol	60.6	30-130	
p-Terphenyl-d14	89.4	30-130	
p-Terphenyl-d14	78.6	30-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.44	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Aldrin [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
alpha-BHC [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
beta-BHC [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
delta-BHC [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
gamma-BHC (Lindane) [1]	ND	0.044	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Chlordane [1]	ND	0.44	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
4,4'-DDD [1]	ND	0.088	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
4,4'-DDE [1]	ND	0.088	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
4,4'-DDT [1]	ND	0.088	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Dieldrin [1]	ND	0.088	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endosulfan I [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endosulfan II [1]	ND	0.18	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endosulfan sulfate [1]	ND	0.18	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endrin [1]	ND	0.18	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endrin aldehyde [1]	ND	0.18	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Endrin ketone [1]	ND	0.18	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Heptachlor [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Heptachlor epoxide [1]	ND	0.11	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Hexachlorobenzene [1]	ND	0.13	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Methoxychlor [1]	ND	1.1	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Toxaphene [1]	ND	2.2	mg/Kg dry	20		SW-846 8081B	8/3/18	8/7/18 15:43	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.6	30-150					8/7/18 15:43	
Decachlorobiphenyl [2]		98.3	30-150					8/7/18 15:43	
Tetrachloro-m-xylene [1]		94.9	30-150					8/7/18 15:43	
Tetrachloro-m-xylene [2]		84.3	30-150					8/7/18 15:43	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	8/3/18	8/7/18 11:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.7	30-150					8/7/18 11:26	
Decachlorobiphenyl [2]		99.1	30-150					8/7/18 11:26	
Tetrachloro-m-xylene [1]		91.7	30-150					8/7/18 11:26	
Tetrachloro-m-xylene [2]		85.6	30-150					8/7/18 11:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Sampled: 7/25/2018 14:00

Field Sample #: MP-2

Sample ID: 18H0015-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
2,4-DB [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
Dalalpon [1]	ND	69	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
Dinoseb [1]	ND	14	µg/kg dry	1	R-05, V-20	SW-846 8151A	8/3/18	8/7/18 14:31	TG
MCPA [2]	ND	2800	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
MCPA [2]	ND	2800	µg/kg dry	1		SW-846 8151A	8/3/18	8/7/18 14:31	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	85.3	30-150						8/7/18 14:31	
2,4-Dichlorophenylacetic acid [2]	88.4	30-150						8/7/18 14:31	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	260	180	mg/Kg dry	20		SW-846 8100 Modified	8/3/18	8/5/18 16:08	RMW
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	*		40-140	S-01		8/5/18 16:08			

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Arsenic	15	1.8	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Barium	54	1.8	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Cadmium	0.55	0.18	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Chromium	22	0.36	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Lead	36	0.54	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/8/18	8/9/18 9:52	EJB
Nickel	14	0.36	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Vanadium	26	0.72	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB
Zinc	33	0.72	mg/Kg dry	1		SW-846 6010D	8/7/18	8/8/18 15:38	EJB

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0015

Date Received: 8/1/2018

Field Sample #: MP-2

Sampled: 7/25/2018 14:00

Sample ID: 18H0015-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/2/18	8/2/18 14:45	LED
pH @24.1°C	7.2		pH Units	1	H-03	SW-846 9045C	8/1/18	8/1/18 20:36	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/4/18	8/6/18 15:45	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/4/18	8/6/18 15:20	DJM
Specific conductance	20	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/9/18	8/9/18 10:30	EC
% Solids	90.5		% Wt	1		SM 2540G	8/9/18	8/9/18 16:13	DMP

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0015-01 [MP-2]	B209885	08/09/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0015-01 [MP-2]	B209889	1.00	08/09/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0015-01 [MP-2]	B209386	50.0	08/02/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209719	1.55	50.0	08/07/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209824	0.630	50.0	08/08/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209437	10.0	10.0	08/03/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209435	10.0	10.0	08/03/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209436	30.5	1.00	08/03/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209432	20.0	5.00	08/03/18

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Sample Extraction Data**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209508	6.79	10.0	08/03/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209374	30.3	1.00	08/02/18
18H0015-01RE1 [MP-2]	B209374	30.3	1.00	08/02/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209531	25.3	250	08/04/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0015-01 [MP-2]	B209532	25.3	250	08/04/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0015-01 [MP-2]	B209304	20.0	08/01/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209508 - SW-846 5035

Blank (B209508-BLK1)

Prepared & Analyzed: 08/03/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05, V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209508 - SW-846 5035

Blank (B209508-BLK1)

Prepared & Analyzed: 08/03/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0458		mg/Kg wet	0.0500		91.6	70-130			
Surrogate: Toluene-d8	0.0492		mg/Kg wet	0.0500		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

LCS (B209508-BS1)

Prepared & Analyzed: 08/03/18

Acetone	0.222	0.10	mg/Kg wet	0.200		111	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0180	0.0010	mg/Kg wet	0.0200		90.0	70-130			
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Bromoform	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromomethane	0.0160	0.010	mg/Kg wet	0.0200		79.9	40-160		V-34	†
2-Butanone (MEK)	0.224	0.040	mg/Kg wet	0.200		112	40-160			†
n-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
sec-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
tert-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0184	0.0010	mg/Kg wet	0.0200		92.1	70-130			
Carbon Disulfide	0.0214	0.0060	mg/Kg wet	0.0200		107	70-130			
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Chlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130			
Chloroethane	0.0212	0.010	mg/Kg wet	0.0200		106	70-130			
Chloroform	0.0195	0.0040	mg/Kg wet	0.0200		97.7	70-130			
Chloromethane	0.0176	0.010	mg/Kg wet	0.0200		87.8	40-160			†
2-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
4-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130			
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,4-Dichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209508 - SW-846 5035										
LCS (B209508-BS1)										
Prepared & Analyzed: 08/03/18										
Dichlorodifluoromethane (Freon 12)	0.0153	0.010	mg/Kg wet	0.0200		76.6	40-160			V-05, V-34 †
1,1-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130			
1,2-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,1-Dichloroethylene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
cis-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichloropropane	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130			
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.0	70-130			
trans-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.6	70-130			
Diethyl Ether	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
Diisopropyl Ether (DIPE)	0.0188	0.0010	mg/Kg wet	0.0200		94.1	70-130			
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		104	40-160			†
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Hexachlorobutadiene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160			†
Isopropylbenzene (Cumene)	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130			
Methylene Chloride	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160			†
Naphthalene	0.0177	0.0040	mg/Kg wet	0.0200		88.5	70-130			
n-Propylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130			
Tetrachloroethylene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Tetrahydrofuran	0.0216	0.010	mg/Kg wet	0.0200		108	70-130			V-16
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2,3-Trichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,2,4-Trichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,1,2-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0189	0.010	mg/Kg wet	0.0200		94.5	70-130			
1,2,3-Trichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,3,5-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Vinyl Chloride	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130			
m+p Xylene	0.0398	0.0040	mg/Kg wet	0.0400		99.6	70-130			
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0461		mg/Kg wet	0.0500		92.2	70-130			
Surrogate: Toluene-d8	0.0494		mg/Kg wet	0.0500		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209508 - SW-846 5035										
LCS Dup (B209508-BSD1)										
Prepared & Analyzed: 08/03/18										
Acetone	0.235	0.10	mg/Kg wet	0.200		117	40-160	5.43	20	†
tert-Amyl Methyl Ether (TAME)	0.0183	0.0010	mg/Kg wet	0.0200		91.3	70-130	1.43	20	
Benzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	1.55	20	
Bromobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	1.23	20	
Bromochloromethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.69	20	
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	2.06	20	
Bromoform	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	1.08	20	
Bromomethane	0.0154	0.010	mg/Kg wet	0.0200		76.8	40-160	3.96	20	V-34 †
2-Butanone (MEK)	0.232	0.040	mg/Kg wet	0.200		116	40-160	3.55	20	†
n-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.13	20	
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	9.84	20	
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130	0.826	20	
tert-Butyl Ethyl Ether (TBEE)	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130	3.42	20	
Carbon Disulfide	0.0216	0.0060	mg/Kg wet	0.0200		108	70-130	0.744	20	
Carbon Tetrachloride	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.593	20	
Chlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	3.77	20	
Chlorodibromomethane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	7.23	20	
Chloroethane	0.0207	0.010	mg/Kg wet	0.0200		103	70-130	2.49	20	
Chloroform	0.0205	0.0040	mg/Kg wet	0.0200		103	70-130	4.89	20	
Chloromethane	0.0179	0.010	mg/Kg wet	0.0200		89.7	40-160	2.14	20	†
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	3.49	20	
4-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	0.203	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	4.24	20	
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	4.72	20	
Dibromomethane	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	2.56	20	
1,2-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	6.16	20	
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	2.92	20	
1,4-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130	3.72	20	
Dichlorodifluoromethane (Freon 12)	0.0149	0.010	mg/Kg wet	0.0200		74.7	40-160	2.51	20	V-05, V-34 †
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	2.55	20	
1,2-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	6.00	20	
1,1-Dichloroethylene	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130	0.939	20	
cis-1,2-Dichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.72	20	
trans-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130	2.20	20	
1,2-Dichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	5.06	20	
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	3.36	20	
2,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	2.90	20	
1,1-Dichloropropene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	4.42	20	
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130	8.81	20	
trans-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	3.56	20	
Diethyl Ether	0.0215	0.010	mg/Kg wet	0.0200		108	70-130	3.50	20	
Diisopropyl Ether (DIPE)	0.0195	0.0010	mg/Kg wet	0.0200		97.4	70-130	3.45	20	
1,4-Dioxane	0.202	0.10	mg/Kg wet	0.200		101	40-160	3.34	20	†
Ethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	2.72	20	
Hexachlorobutadiene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	3.12	20	
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	40-160	2.86	20	†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	1.15	20	
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	5.20	20	
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.4	70-130	0.512	20	
Methylene Chloride	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	1.55	20	
4-Methyl-2-pentanone (MIBK)	0.224	0.020	mg/Kg wet	0.200		112	40-160	2.97	20	†
Naphthalene	0.0172	0.0040	mg/Kg wet	0.0200		86.2	70-130	2.63	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209508 - SW-846 5035										
LCS Dup (B209508-BSD1)										
Prepared & Analyzed: 08/03/18										
n-Propylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	1.06	20	
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.00	20	
1,1,1,2-Tetrachloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	2.09	20	
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130	0.203	20	
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.817	20	
Tetrahydrofuran	0.0188	0.010	mg/Kg wet	0.0200		94.0	70-130	14.0	20	V-16
Toluene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130	1.33	20	
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	5.29	20	
1,2,4-Trichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	2.68	20	
1,1,1-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	4.97	20	
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	4.70	20	
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	1.52	20	
Trichlorofluoromethane (Freon 11)	0.0199	0.010	mg/Kg wet	0.0200		99.4	70-130	5.05	20	
1,2,3-Trichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	12.6	20	
1,2,4-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	5.70	20	
1,3,5-Trimethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.91	20	
Vinyl Chloride	0.0180	0.010	mg/Kg wet	0.0200		90.0	70-130	4.78	20	
m+p Xylene	0.0413	0.0040	mg/Kg wet	0.0400		103	70-130	3.70	20	
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	4.96	20	
Surrogate: 1,2-Dichloroethane-d4	0.0457		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209374 - SW-846 3546

Blank (B209374-BLK1)

Prepared: 08/02/18 Analyzed: 08/03/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209374 - SW-846 3546										
Blank (B209374-BLK1)										
					Prepared: 08/02/18 Analyzed: 08/03/18					
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.49		mg/Kg wet	6.67		67.4	30-130			
Surrogate: Phenol-d6	4.51		mg/Kg wet	6.67		67.7	30-130			
Surrogate: Nitrobenzene-d5	2.15		mg/Kg wet	3.33		64.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	30-130			
Surrogate: 2,4,6-Tribromophenol	4.78		mg/Kg wet	6.67		71.7	30-130			
Surrogate: p-Terphenyl-d14	3.08		mg/Kg wet	3.33		92.5	30-130			
LCS (B209374-BS1)										
					Prepared: 08/02/18 Analyzed: 08/03/18					
Acenaphthene	0.858	0.17	mg/Kg wet	1.67		51.5	40-140			
Acenaphthylene	0.883	0.17	mg/Kg wet	1.67		53.0	40-140			
Acetophenone	1.00	0.34	mg/Kg wet	1.67		60.1	40-140			
Aniline	0.717	0.34	mg/Kg wet	1.67		43.0	40-140			
Anthracene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Benzo(a)anthracene	0.838	0.17	mg/Kg wet	1.67		50.3	40-140			
Benzo(a)pyrene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Benzo(b)fluoranthene	0.807	0.17	mg/Kg wet	1.67		48.4	40-140			
Benzo(g,h,i)perylene	0.902	0.17	mg/Kg wet	1.67		54.1	40-140			
Benzo(k)fluoranthene	0.795	0.17	mg/Kg wet	1.67		47.7	40-140			
Bis(2-chloroethoxy)methane	1.05	0.34	mg/Kg wet	1.67		62.8	40-140			
Bis(2-chloroethyl)ether	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			
Bis(2-chloroisopropyl)ether	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Bis(2-Ethylhexyl)phthalate	0.821	0.34	mg/Kg wet	1.67		49.3	40-140			
4-Bromophenylphenylether	0.980	0.34	mg/Kg wet	1.67		58.8	40-140			
Butylbenzylphthalate	0.799	0.34	mg/Kg wet	1.67		47.9	40-140			
4-Chloroaniline	0.731	0.66	mg/Kg wet	1.67		43.9	15-140			V-34 †
2-Chloronaphthalene	0.846	0.34	mg/Kg wet	1.67		50.8	40-140			
2-Chlorophenol	0.988	0.34	mg/Kg wet	1.67		59.3	30-130			
Chrysene	0.842	0.17	mg/Kg wet	1.67		50.5	40-140			
Dibenz(a,h)anthracene	0.910	0.17	mg/Kg wet	1.67		54.6	40-140			
Dibenzofuran	0.931	0.34	mg/Kg wet	1.67		55.8	40-140			
Di-n-butylphthalate	0.942	0.34	mg/Kg wet	1.67		56.5	40-140			
1,2-Dichlorobenzene	0.998	0.34	mg/Kg wet	1.67		59.9	40-140			
1,3-Dichlorobenzene	0.951	0.34	mg/Kg wet	1.67		57.1	40-140			
1,4-Dichlorobenzene	0.985	0.34	mg/Kg wet	1.67		59.1	40-140			
3,3-Dichlorobenzidine	0.709	0.17	mg/Kg wet	1.67		42.6	40-140			
2,4-Dichlorophenol	0.948	0.34	mg/Kg wet	1.67		56.9	30-130			
Diethylphthalate	0.870	0.34	mg/Kg wet	1.67		52.2	40-140			
2,4-Dimethylphenol	0.935	0.34	mg/Kg wet	1.67		56.1	30-130			
Dimethylphthalate	0.926	0.34	mg/Kg wet	1.67		55.5	40-140			
2,4-Dinitrophenol	0.459	0.66	mg/Kg wet	1.67		27.5	15-140			†
2,4-Dinitrotoluene	1.02	0.34	mg/Kg wet	1.67		60.9	40-140			
2,6-Dinitrotoluene	0.996	0.34	mg/Kg wet	1.67		59.8	40-140			
Di-n-octylphthalate	0.731	0.34	mg/Kg wet	1.67		43.8	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	0.942	0.34	mg/Kg wet	1.67		56.5	40-140			
Fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.6	40-140			
Fluorene	0.893	0.17	mg/Kg wet	1.67		53.6	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209374 - SW-846 3546

LCS (B209374-BS1)

Prepared: 08/02/18 Analyzed: 08/03/18

Hexachlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.3	40-140			
Hexachlorobutadiene	1.01	0.34	mg/Kg wet	1.67		60.8	40-140			
Hexachloroethane	0.966	0.34	mg/Kg wet	1.67		58.0	40-140			
Indeno(1,2,3-cd)pyrene	0.939	0.17	mg/Kg wet	1.67		56.3	40-140			
Isophorone	0.996	0.34	mg/Kg wet	1.67		59.8	40-140			
2-Methylnaphthalene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
2-Methylphenol	0.776	0.34	mg/Kg wet	1.67		46.5	30-130			
3/4-Methylphenol	1.05	0.34	mg/Kg wet	1.67		62.8	30-130			
Naphthalene	0.969	0.17	mg/Kg wet	1.67		58.1	40-140			
Nitrobenzene	0.961	0.34	mg/Kg wet	1.67		57.7	40-140			
2-Nitrophenol	1.04	0.34	mg/Kg wet	1.67		62.3	30-130			
4-Nitrophenol	0.930	0.66	mg/Kg wet	1.67		55.8	15-140			†
Pentachlorophenol	0.572	0.34	mg/Kg wet	1.67		34.3	30-130			
Phenanthrene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140			
Phenol	0.982	0.34	mg/Kg wet	1.67		58.9	15-140			†
Pyrene	0.800	0.17	mg/Kg wet	1.67		48.0	40-140			
Pyridine	0.734	0.34	mg/Kg wet	1.67		44.0	30-140			†
1,2,4-Trichlorobenzene	0.961	0.34	mg/Kg wet	1.67		57.7	40-140			
2,4,5-Trichlorophenol	0.858	0.34	mg/Kg wet	1.67		51.5	30-130			
2,4,6-Trichlorophenol	0.892	0.34	mg/Kg wet	1.67		53.5	30-130			
Surrogate: 2-Fluorophenol	8.47		mg/Kg wet	13.3		63.5	30-130			
Surrogate: Phenol-d6	8.44		mg/Kg wet	13.3		63.3	30-130			
Surrogate: Nitrobenzene-d5	4.05		mg/Kg wet	6.67		60.8	30-130			
Surrogate: 2-Fluorobiphenyl	3.92		mg/Kg wet	6.67		58.8	30-130			
Surrogate: 2,4,6-Tribromophenol	8.15		mg/Kg wet	13.3		61.1	30-130			
Surrogate: p-Terphenyl-d14	3.83		mg/Kg wet	6.67		57.4	30-130			

LCS Dup (B209374-BSD1)

Prepared: 08/02/18 Analyzed: 08/03/18

Acenaphthene	0.843	0.17	mg/Kg wet	1.67		50.6	40-140	1.80	30	
Acenaphthylene	0.870	0.17	mg/Kg wet	1.67		52.2	40-140	1.48	30	
Acetophenone	0.968	0.34	mg/Kg wet	1.67		58.1	40-140	3.45	30	
Aniline	0.665	0.34	mg/Kg wet	1.67		39.9	* 40-140	7.48	30	L-07
Anthracene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.807	30	
Benzo(a)anthracene	0.936	0.17	mg/Kg wet	1.67		56.2	40-140	11.1	30	
Benzo(a)pyrene	0.971	0.17	mg/Kg wet	1.67		58.3	40-140	15.0	30	
Benzo(b)fluoranthene	0.936	0.17	mg/Kg wet	1.67		56.1	40-140	14.8	30	
Benzo(g,h,i)perylene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140	11.8	30	
Benzo(k)fluoranthene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	15.4	30	
Bis(2-chloroethoxy)methane	1.02	0.34	mg/Kg wet	1.67		61.1	40-140	2.78	30	
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.4	40-140	2.46	30	
Bis(2-chloroisopropyl)ether	1.12	0.34	mg/Kg wet	1.67		66.9	40-140	2.39	30	
Bis(2-Ethylhexyl)phthalate	0.933	0.34	mg/Kg wet	1.67		56.0	40-140	12.7	30	
4-Bromophenylphenylether	1.02	0.34	mg/Kg wet	1.67		61.2	40-140	4.00	30	
Butylbenzylphthalate	0.917	0.34	mg/Kg wet	1.67		55.0	40-140	13.8	30	
4-Chloroaniline	0.721	0.66	mg/Kg wet	1.67		43.3	15-140	1.42	30	V-34 †
2-Chloronaphthalene	0.830	0.34	mg/Kg wet	1.67		49.8	40-140	1.91	30	
2-Chlorophenol	0.970	0.34	mg/Kg wet	1.67		58.2	30-130	1.80	30	
Chrysene	0.927	0.17	mg/Kg wet	1.67		55.6	40-140	9.61	30	
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	14.7	30	
Dibenzofuran	0.907	0.34	mg/Kg wet	1.67		54.4	40-140	2.54	30	
Di-n-butylphthalate	0.948	0.34	mg/Kg wet	1.67		56.9	40-140	0.705	30	
1,2-Dichlorobenzene	0.986	0.34	mg/Kg wet	1.67		59.1	40-140	1.28	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209374 - SW-846 3546										
LCS Dup (B209374-BSD1)										
					Prepared: 08/02/18 Analyzed: 08/03/18					
1,3-Dichlorobenzene	0.950	0.34	mg/Kg wet	1.67		57.0	40-140	0.105	30	
1,4-Dichlorobenzene	0.973	0.34	mg/Kg wet	1.67		58.4	40-140	1.29	30	
3,3-Dichlorobenzidine	0.802	0.17	mg/Kg wet	1.67		48.1	40-140	12.3	30	
2,4-Dichlorophenol	0.931	0.34	mg/Kg wet	1.67		55.9	30-130	1.77	30	
Diethylphthalate	0.872	0.34	mg/Kg wet	1.67		52.3	40-140	0.268	30	
2,4-Dimethylphenol	0.917	0.34	mg/Kg wet	1.67		55.0	30-130	1.94	30	
Dimethylphthalate	0.913	0.34	mg/Kg wet	1.67		54.8	40-140	1.38	30	
2,4-Dinitrophenol	0.401	0.66	mg/Kg wet	1.67		24.0	15-140	13.6	30	†
2,4-Dinitrotoluene	0.986	0.34	mg/Kg wet	1.67		59.1	40-140	2.93	30	
2,6-Dinitrotoluene	1.00	0.34	mg/Kg wet	1.67		60.3	40-140	0.800	30	
Di-n-octylphthalate	0.845	0.34	mg/Kg wet	1.67		50.7	40-140	14.6	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.987	0.34	mg/Kg wet	1.67		59.2	40-140	4.70	30	
Fluoranthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	0.801	30	
Fluorene	0.894	0.17	mg/Kg wet	1.67		53.6	40-140	0.0746	30	
Hexachlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.4	40-140	3.29	30	
Hexachlorobutadiene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	1.50	30	
Hexachloroethane	0.963	0.34	mg/Kg wet	1.67		57.8	40-140	0.346	30	
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	11.8	30	
Isophorone	0.983	0.34	mg/Kg wet	1.67		59.0	40-140	1.28	30	
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	0.991	30	
2-Methylphenol	0.742	0.34	mg/Kg wet	1.67		44.5	30-130	4.44	30	
3/4-Methylphenol	0.992	0.34	mg/Kg wet	1.67		59.5	30-130	5.36	30	
Naphthalene	0.971	0.17	mg/Kg wet	1.67		58.3	40-140	0.241	30	
Nitrobenzene	0.963	0.34	mg/Kg wet	1.67		57.8	40-140	0.208	30	
2-Nitrophenol	1.06	0.34	mg/Kg wet	1.67		63.4	30-130	1.85	30	
4-Nitrophenol	0.853	0.66	mg/Kg wet	1.67		51.2	15-140	8.63	30	†
Pentachlorophenol	0.582	0.34	mg/Kg wet	1.67		34.9	30-130	1.85	30	
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	2.63	30	
Phenol	0.959	0.34	mg/Kg wet	1.67		57.5	15-140	2.37	30	†
Pyrene	0.922	0.17	mg/Kg wet	1.67		55.3	40-140	14.1	30	
Pyridine	0.707	0.34	mg/Kg wet	1.67		42.4	30-140	3.79	30	†
1,2,4-Trichlorobenzene	0.969	0.34	mg/Kg wet	1.67		58.1	40-140	0.760	30	
2,4,5-Trichlorophenol	0.848	0.34	mg/Kg wet	1.67		50.9	30-130	1.17	30	
2,4,6-Trichlorophenol	0.886	0.34	mg/Kg wet	1.67		53.2	30-130	0.675	30	
Surrogate: 2-Fluorophenol	4.30		mg/Kg wet	6.67		64.6	30-130			
Surrogate: Phenol-d6	4.25		mg/Kg wet	6.67		63.7	30-130			
Surrogate: Nitrobenzene-d5	2.06		mg/Kg wet	3.33		62.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.06		mg/Kg wet	3.33		61.8	30-130			
Surrogate: 2,4,6-Tribromophenol	4.03		mg/Kg wet	6.67		60.5	30-130			
Surrogate: p-Terphenyl-d14	2.23		mg/Kg wet	3.33		67.0	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209437 - SW-846 3546

Blank (B209437-BLK1)

Prepared: 08/03/18 Analyzed: 08/07/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.7	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209437 - SW-846 3546										
LCS (B209437-BS1)										
					Prepared: 08/03/18 Analyzed: 08/07/18					
alpha-Chlordane	0.066	0.0050	mg/Kg wet	0.100		66.0	40-140			
alpha-Chlordane [2C]	0.072	0.0050	mg/Kg wet	0.100		72.2	40-140			
gamma-Chlordane	0.063	0.0050	mg/Kg wet	0.100		63.4	40-140			
gamma-Chlordane [2C]	0.075	0.0050	mg/Kg wet	0.100		74.7	40-140			
Alachlor	0.088	0.020	mg/Kg wet	0.100		87.8	40-140			
Alachlor [2C]	0.084	0.020	mg/Kg wet	0.100		83.5	40-140			
Aldrin	0.072	0.0050	mg/Kg wet	0.100		71.7	40-140			
Aldrin [2C]	0.077	0.0050	mg/Kg wet	0.100		76.9	40-140			V-06
alpha-BHC	0.066	0.0050	mg/Kg wet	0.100		66.0	40-140			
alpha-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.3	40-140			V-06
beta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140			
beta-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		64.5	40-140			
delta-BHC	0.074	0.0050	mg/Kg wet	0.100		73.5	40-140			
delta-BHC [2C]	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140			V-06
gamma-BHC (Lindane)	0.072	0.0020	mg/Kg wet	0.100		72.1	40-140			
gamma-BHC (Lindane) [2C]	0.076	0.0020	mg/Kg wet	0.100		76.1	40-140			V-06
4,4'-DDD	0.074	0.0040	mg/Kg wet	0.100		74.2	40-140			
4,4'-DDD [2C]	0.080	0.0040	mg/Kg wet	0.100		79.6	40-140			V-06
4,4'-DDE	0.072	0.0040	mg/Kg wet	0.100		71.8	40-140			
4,4'-DDE [2C]	0.078	0.0040	mg/Kg wet	0.100		78.4	40-140			V-06
4,4'-DDT	0.076	0.0040	mg/Kg wet	0.100		76.0	40-140			
4,4'-DDT [2C]	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140			V-06
Dieldrin	0.074	0.0040	mg/Kg wet	0.100		74.1	40-140			
Dieldrin [2C]	0.080	0.0040	mg/Kg wet	0.100		80.1	40-140			V-06
Endosulfan I	0.067	0.0050	mg/Kg wet	0.100		67.3	40-140			
Endosulfan I [2C]	0.076	0.0050	mg/Kg wet	0.100		76.2	40-140			
Endosulfan II	0.070	0.0080	mg/Kg wet	0.100		70.5	40-140			
Endosulfan II [2C]	0.076	0.0080	mg/Kg wet	0.100		75.8	40-140			
Endosulfan Sulfate	0.072	0.0080	mg/Kg wet	0.100		72.5	40-140			
Endosulfan Sulfate [2C]	0.078	0.0080	mg/Kg wet	0.100		77.7	40-140			
Endrin	0.071	0.0080	mg/Kg wet	0.100		71.2	40-140			
Endrin [2C]	0.077	0.0080	mg/Kg wet	0.100		77.4	40-140			V-06
Endrin Aldehyde	0.068	0.0080	mg/Kg wet	0.100		67.9	40-140			
Endrin Aldehyde [2C]	0.073	0.0080	mg/Kg wet	0.100		73.3	40-140			
Endrin Ketone	0.073	0.0080	mg/Kg wet	0.100		72.7	40-140			
Endrin Ketone [2C]	0.076	0.0080	mg/Kg wet	0.100		75.9	40-140			
Heptachlor	0.070	0.0050	mg/Kg wet	0.100		70.0	40-140			
Heptachlor [2C]	0.080	0.0050	mg/Kg wet	0.100		80.5	40-140			
Heptachlor Epoxide	0.068	0.0050	mg/Kg wet	0.100		67.8	40-140			
Heptachlor Epoxide [2C]	0.073	0.0050	mg/Kg wet	0.100		72.6	40-140			
Hexachlorobenzene	0.075	0.0060	mg/Kg wet	0.100		75.3	40-140			
Hexachlorobenzene [2C]	0.080	0.0060	mg/Kg wet	0.100		80.4	40-140			
Methoxychlor	0.070	0.050	mg/Kg wet	0.100		70.3	40-140			
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.100		80.7	40-140			
Surrogate: Decachlorobiphenyl	0.132		mg/Kg wet	0.200		65.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.136		mg/Kg wet	0.200		67.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg wet	0.200		77.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209437 - SW-846 3546										
LCS Dup (B209437-BSD1)										
					Prepared: 08/03/18 Analyzed: 08/07/18					
alpha-Chlordane	0.081	0.0050	mg/Kg wet	0.100		81.2	40-140	20.6	30	
alpha-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	20.3	30	
gamma-Chlordane	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	21.1	30	
gamma-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140	21.8	30	
Alachlor	0.10	0.020	mg/Kg wet	0.100		101	40-140	14.4	30	
Alachlor [2C]	0.10	0.020	mg/Kg wet	0.100		100	40-140	18.3	30	
Aldrin	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140	20.4	30	
Aldrin [2C]	0.094	0.0050	mg/Kg wet	0.100		94.2	40-140	20.3	30	V-06
alpha-BHC	0.083	0.0050	mg/Kg wet	0.100		82.7	40-140	22.6	30	
alpha-BHC [2C]	0.086	0.0050	mg/Kg wet	0.100		86.0	40-140	17.4	30	V-06
beta-BHC	0.086	0.0050	mg/Kg wet	0.100		85.5	40-140	21.4	30	
beta-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		79.9	40-140	21.4	30	
delta-BHC	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	20.8	30	
delta-BHC [2C]	0.088	0.0050	mg/Kg wet	0.100		87.7	40-140	19.5	30	V-06
gamma-BHC (Lindane)	0.089	0.0020	mg/Kg wet	0.100		89.1	40-140	21.0	30	
gamma-BHC (Lindane) [2C]	0.093	0.0020	mg/Kg wet	0.100		92.5	40-140	19.5	30	V-06
4,4'-DDD	0.092	0.0040	mg/Kg wet	0.100		91.7	40-140	21.0	30	
4,4'-DDD [2C]	0.098	0.0040	mg/Kg wet	0.100		98.0	40-140	20.7	30	V-06
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		88.9	40-140	21.3	30	
4,4'-DDE [2C]	0.097	0.0040	mg/Kg wet	0.100		96.7	40-140	20.8	30	V-06
4,4'-DDT	0.095	0.0040	mg/Kg wet	0.100		94.5	40-140	21.7	30	
4,4'-DDT [2C]	0.099	0.0040	mg/Kg wet	0.100		98.7	40-140	21.7	30	V-06
Dieldrin	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140	20.7	30	
Dieldrin [2C]	0.098	0.0040	mg/Kg wet	0.100		97.9	40-140	20.0	30	V-06
Endosulfan I	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140	20.7	30	
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.100		93.8	40-140	20.7	30	
Endosulfan II	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140	21.6	30	
Endosulfan II [2C]	0.093	0.0080	mg/Kg wet	0.100		92.8	40-140	20.1	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		89.5	40-140	21.0	30	
Endosulfan Sulfate [2C]	0.095	0.0080	mg/Kg wet	0.100		95.1	40-140	20.2	30	
Endrin	0.087	0.0080	mg/Kg wet	0.100		87.4	40-140	20.5	30	
Endrin [2C]	0.095	0.0080	mg/Kg wet	0.100		94.8	40-140	20.2	30	V-06
Endrin Aldehyde	0.084	0.0080	mg/Kg wet	0.100		83.8	40-140	21.1	30	
Endrin Aldehyde [2C]	0.090	0.0080	mg/Kg wet	0.100		90.1	40-140	20.5	30	
Endrin Ketone	0.089	0.0080	mg/Kg wet	0.100		89.3	40-140	20.6	30	
Endrin Ketone [2C]	0.092	0.0080	mg/Kg wet	0.100		92.2	40-140	19.4	30	
Heptachlor	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140	19.5	30	
Heptachlor [2C]	0.097	0.0050	mg/Kg wet	0.100		97.2	40-140	18.9	30	
Heptachlor Epoxide	0.084	0.0050	mg/Kg wet	0.100		83.5	40-140	20.8	30	
Heptachlor Epoxide [2C]	0.089	0.0050	mg/Kg wet	0.100		88.5	40-140	19.8	30	
Hexachlorobenzene	0.093	0.0060	mg/Kg wet	0.100		92.5	40-140	20.6	30	
Hexachlorobenzene [2C]	0.094	0.0060	mg/Kg wet	0.100		94.2	40-140	15.8	30	
Methoxychlor	0.087	0.050	mg/Kg wet	0.100		87.0	40-140	21.3	30	
Methoxychlor [2C]	0.099	0.050	mg/Kg wet	0.100		98.7	40-140	20.1	30	
Surrogate: Decachlorobiphenyl	0.166		mg/Kg wet	0.200		82.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209435 - SW-846 3546										
Blank (B209435-BLK1)										
Prepared: 08/03/18 Analyzed: 08/06/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.150		mg/Kg wet	0.200		75.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg wet	0.200		66.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.138		mg/Kg wet	0.200		69.1	30-150			
LCS (B209435-BS1)										
Prepared: 08/03/18 Analyzed: 08/06/18										
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		69.0	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		63.1	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		70.5	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		65.4	40-140			
Surrogate: Decachlorobiphenyl	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.126		mg/Kg wet	0.200		63.2	30-150			
LCS Dup (B209435-BSD1)										
Prepared: 08/03/18 Analyzed: 08/06/18										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	14.7	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.8	40-140	17.1	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.1	40-140	16.4	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.2	40-140	17.9	30	
Surrogate: Decachlorobiphenyl	0.195		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209432 - SW-846 8151										
Blank (B209432-BLK1)										
Prepared: 08/03/18 Analyzed: 08/07/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							R-05
Dinoseb [2C]	ND	12	µg/kg wet							R-05
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	84.8		µg/kg wet	95.2		89.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	75.4		µg/kg wet	95.2		79.1	30-150			
LCS (B209432-BS1)										
Prepared: 08/03/18 Analyzed: 08/07/18										
2,4-D	104	25	µg/kg wet	125		82.9	40-140			
2,4-D [2C]	105	25	µg/kg wet	125		84.0	40-140			
2,4-DB	95.7	25	µg/kg wet	125		76.6	40-140			
2,4-DB [2C]	98.4	25	µg/kg wet	125		78.7	40-140			
2,4,5-TP (Silvex)	9.55	2.5	µg/kg wet	12.5		76.4	40-140			
2,4,5-TP (Silvex) [2C]	9.77	2.5	µg/kg wet	12.5		78.2	40-140			
2,4,5-T	10.1	2.5	µg/kg wet	12.5		80.9	40-140			
2,4,5-T [2C]	11.6	2.5	µg/kg wet	12.5		93.2	40-140			
Dalapon	157	62	µg/kg wet	312		50.1	40-140			
Dalapon [2C]	158	62	µg/kg wet	312		50.4	40-140			
Dicamba	10.6	2.5	µg/kg wet	12.5		85.1	40-140			
Dicamba [2C]	9.41	2.5	µg/kg wet	12.5		75.3	40-140			
Dichloroprop	105	25	µg/kg wet	125		83.8	40-140			
Dichloroprop [2C]	102	25	µg/kg wet	125		81.7	40-140			
Dinoseb	3.37	12	µg/kg wet	62.5		5.39	0-42.4			V-06, R-05
Dinoseb [2C]	3.79	12	µg/kg wet	62.5		6.06	0-41.1			V-06, R-05
MCPA	8920	2500	µg/kg wet	12500		71.4	40-140			V-04
MCPA [2C]	8490	2500	µg/kg wet	12500		67.9	40-140			
MCPP	11600	2500	µg/kg wet	12500		92.8	40-140			V-04
MCPP [2C]	8770	2500	µg/kg wet	12500		70.2	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	81.5		µg/kg wet	100		81.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	74.6		µg/kg wet	100		74.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209432 - SW-846 8151										
LCS Dup (B209432-BSD1)										
					Prepared: 08/03/18 Analyzed: 08/07/18					
2,4-D	111	25	µg/kg wet	125		88.6	40-140	6.60	30	
2,4-D [2C]	110	25	µg/kg wet	125		87.8	40-140	4.44	30	
2,4-DB	104	25	µg/kg wet	125		83.4	40-140	8.58	30	
2,4-DB [2C]	105	25	µg/kg wet	125		83.8	40-140	6.24	30	
2,4,5-TP (Silvex)	10.1	2.5	µg/kg wet	12.5		81.2	40-140	6.04	30	
2,4,5-TP (Silvex) [2C]	10.3	2.5	µg/kg wet	12.5		82.5	40-140	5.39	30	
2,4,5-T	10.7	2.5	µg/kg wet	12.5		85.3	40-140	5.31	30	
2,4,5-T [2C]	12.7	2.5	µg/kg wet	12.5		102	40-140	8.75	30	
Dalapon	178	62	µg/kg wet	312		57.0	40-140	12.9	30	
Dalapon [2C]	180	62	µg/kg wet	312		57.5	40-140	13.2	30	
Dicamba	10.2	2.5	µg/kg wet	12.5		81.5	40-140	4.31	30	
Dicamba [2C]	9.86	2.5	µg/kg wet	12.5		78.8	40-140	4.63	30	
Dichloroprop	109	25	µg/kg wet	125		87.6	40-140	4.39	30	
Dichloroprop [2C]	107	25	µg/kg wet	125		86.0	40-140	5.12	30	
Dinoseb	8.22	12	µg/kg wet	62.5		13.2	0-42.4	83.6 *	30	R-05, V-06
Dinoseb [2C]	9.31	12	µg/kg wet	62.5		14.9	0-41.1	84.3 *	30	R-05, V-06
MCPA	8850	2500	µg/kg wet	12500		70.8	40-140	0.867	30	V-04
MCPA [2C]	9030	2500	µg/kg wet	12500		72.3	40-140	6.17	30	
MCPP	12200	2500	µg/kg wet	12500		97.6	40-140	5.02	30	V-04
MCPP [2C]	9360	2500	µg/kg wet	12500		74.9	40-140	6.53	30	
Surrogate: 2,4-Dichlorophenylacetic acid	84.6		µg/kg wet	100		84.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	80.0		µg/kg wet	100		80.0	30-150			
Matrix Spike (B209432-MS1)										
			Source: 18H0015-01		Prepared: 08/03/18 Analyzed: 08/07/18					
2,4-D	122	28	µg/kg dry	138	ND	88.1	30-150			
2,4-D [2C]	123	28	µg/kg dry	138	ND	88.9	30-150			
2,4-DB	121	28	µg/kg dry	138	ND	87.4	30-150			
2,4-DB [2C]	129	28	µg/kg dry	138	ND	93.5	30-150			
2,4,5-TP (Silvex)	12.8	2.8	µg/kg dry	13.8	ND	92.6	30-150			
2,4,5-TP (Silvex) [2C]	11.8	2.8	µg/kg dry	13.8	ND	85.2	30-150			
2,4,5-T	10.9	2.8	µg/kg dry	13.8	ND	78.8	30-150			
2,4,5-T [2C]	13.2	2.8	µg/kg dry	13.8	ND	95.7	30-150			
Dalapon	205	69	µg/kg dry	345	ND	59.3	30-150			
Dalapon [2C]	209	69	µg/kg dry	345	ND	60.7	30-150			
Dicamba	10.1	2.8	µg/kg dry	13.8	ND	73.1	30-150			
Dicamba [2C]	10.5	2.8	µg/kg dry	13.8	ND	76.1	30-150			
Dichloroprop	125	28	µg/kg dry	138	ND	90.5	30-150			
Dichloroprop [2C]	114	28	µg/kg dry	138	ND	82.4	30-150			
Dinoseb	29.7	14	µg/kg dry	69.1	ND	43.0	10-150			R-05, V-06
Dinoseb [2C]	27.8	14	µg/kg dry	69.1	ND	40.3	10-150			R-05, V-06
MCPA	11000	2800	µg/kg dry	13800	ND	79.5	30-150			V-04
MCPA [2C]	10400	2800	µg/kg dry	13800	ND	75.3	30-150			
MCPP	13700	2800	µg/kg dry	13800	ND	99.4	30-150			V-04
MCPP [2C]	10900	2800	µg/kg dry	13800	ND	79.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	91.7		µg/kg dry	111		83.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	98.0		µg/kg dry	111		88.7	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209432 - SW-846 8151										
Matrix Spike Dup (B209432-MSD1)		Source: 18H0015-01			Prepared: 08/03/18 Analyzed: 08/07/18					
2,4-D	115	28	µg/kg dry	138	ND	83.3	30-150	5.66	30	
2,4-D [2C]	117	28	µg/kg dry	138	ND	84.6	30-150	4.99	30	
2,4-DB	112	28	µg/kg dry	138	ND	80.9	30-150	7.72	30	
2,4-DB [2C]	121	28	µg/kg dry	138	ND	87.4	30-150	6.69	30	
2,4,5-TP (Silvex)	10.5	2.8	µg/kg dry	13.8	ND	76.2	30-150	19.4	30	
2,4,5-TP (Silvex) [2C]	11.1	2.8	µg/kg dry	13.8	ND	80.7	30-150	5.45	30	
2,4,5-T	10.2	2.8	µg/kg dry	13.8	ND	73.7	30-150	6.64	30	
2,4,5-T [2C]	12.8	2.8	µg/kg dry	13.8	ND	92.7	30-150	3.19	30	
Dalapon	168	69	µg/kg dry	345	ND	48.5	30-150	20.0	30	
Dalapon [2C]	173	69	µg/kg dry	345	ND	50.1	30-150	19.0	30	
Dicamba	9.77	2.8	µg/kg dry	13.8	ND	70.7	30-150	3.41	30	
Dicamba [2C]	10.2	2.8	µg/kg dry	13.8	ND	73.9	30-150	3.05	30	
Dichloroprop	124	28	µg/kg dry	138	ND	89.8	30-150	0.749	30	
Dichloroprop [2C]	113	28	µg/kg dry	138	ND	81.9	30-150	0.546	30	
Dinoseb	22.8	14	µg/kg dry	69.1	ND	33.0	10-150	26.4	30	R-05, V-06
Dinoseb [2C]	21.2	14	µg/kg dry	69.1	ND	30.6	10-150	27.3	30	R-05, V-06
MCPA	10200	2800	µg/kg dry	13800	ND	74.1	30-150	6.99	30	V-04
MCPA [2C]	10000	2800	µg/kg dry	13800	ND	72.7	30-150	3.48	30	
MCPP	14300	2800	µg/kg dry	13800	ND	104	30-150	4.28	30	V-04
MCPP [2C]	10400	2800	µg/kg dry	13800	ND	75.2	30-150	5.10	30	
Surrogate: 2,4-Dichlorophenylacetic acid	89.9		µg/kg dry	111		81.4	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	92.0		µg/kg dry	111		83.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209436 - SW-846 3546										
Blank (B209436-BLK1)										
					Prepared: 08/03/18 Analyzed: 08/05/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.01		mg/Kg wet	3.33		60.2	40-140			
LCS (B209436-BS1)										
					Prepared: 08/03/18 Analyzed: 08/05/18					
TPH (C9-C36)	24.1	8.3	mg/Kg wet	33.3		72.4	40-140			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.1	40-140			
LCS Dup (B209436-BSD1)										
					Prepared: 08/03/18 Analyzed: 08/05/18					
TPH (C9-C36)	28.2	8.3	mg/Kg wet	33.3		84.7	40-140	15.6	30	
Surrogate: 2-Fluorobiphenyl	2.40		mg/Kg wet	3.33		71.9	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209719 - SW-846 3050B

Blank (B209719-BLK1)

Prepared: 08/07/18 Analyzed: 08/08/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B209719-BS1)

Prepared: 08/07/18 Analyzed: 08/08/18

Antimony	61.3	5.0	mg/Kg wet	75.5		81.2	3.8-196			
Arsenic	162	5.0	mg/Kg wet	161		100	83.2-116.8			
Barium	267	5.0	mg/Kg wet	260		103	82.7-117.3			
Beryllium	103	0.50	mg/Kg wet	97.6		106	83.4-116.8			
Cadmium	212	0.50	mg/Kg wet	211		100	83.4-116.6			
Chromium	141	1.0	mg/Kg wet	136		103	82.4-117.6			
Lead	116	1.5	mg/Kg wet	111		104	83-117.1			
Nickel	92.2	1.0	mg/Kg wet	91.9		100	82.9-117.5			
Selenium	188	10	mg/Kg wet	191		98.5	79.6-120.9			
Silver	44.1	1.0	mg/Kg wet	43.3		102	79.9-119.9			
Thallium	165	5.0	mg/Kg wet	156		106	81.4-119.2			
Vanadium	54.2	2.0	mg/Kg wet	56.7		95.6	79-121.2			
Zinc	203	2.0	mg/Kg wet	199		102	81.4-119.1			

LCS Dup (B209719-BSD1)

Prepared: 08/07/18 Analyzed: 08/08/18

Antimony	63.7	5.0	mg/Kg wet	75.5		84.4	3.8-196	3.88	30	
Arsenic	166	5.0	mg/Kg wet	161		103	83.2-116.8	2.88	30	
Barium	282	5.0	mg/Kg wet	260		108	82.7-117.3	5.35	30	
Beryllium	105	0.50	mg/Kg wet	97.6		108	83.4-116.8	1.88	30	
Cadmium	217	0.50	mg/Kg wet	211		103	83.4-116.6	2.30	30	
Chromium	145	1.0	mg/Kg wet	136		107	82.4-117.6	3.07	30	
Lead	117	1.5	mg/Kg wet	111		105	83-117.1	0.994	30	
Nickel	95.0	1.0	mg/Kg wet	91.9		103	82.9-117.5	3.04	30	
Selenium	192	10	mg/Kg wet	191		101	79.6-120.9	2.05	30	
Silver	45.9	1.0	mg/Kg wet	43.3		106	79.9-119.9	3.83	30	
Thallium	171	5.0	mg/Kg wet	156		109	81.4-119.2	3.29	30	
Vanadium	55.9	2.0	mg/Kg wet	56.7		98.6	79-121.2	3.06	30	
Zinc	212	2.0	mg/Kg wet	199		107	81.4-119.1	4.69	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209719 - SW-846 3050B										
MRL Check (B209719-MRL1)					Prepared: 08/07/18 Analyzed: 08/08/18					
Lead	0.550	0.48	mg/Kg wet	0.480		115	80-120			
Batch B209824 - SW-846 7471										
Blank (B209824-BLK1)					Prepared: 08/08/18 Analyzed: 08/09/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B209824-BS1)					Prepared: 08/08/18 Analyzed: 08/09/18					
Mercury	9.40	1.9	mg/Kg wet	9.36		100	73.7-126.3			
LCS Dup (B209824-BSD1)					Prepared: 08/08/18 Analyzed: 08/09/18					
Mercury	9.80	1.9	mg/Kg wet	9.36		105	73.7-126.3	4.17	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209304 - SW-846 9045C										
LCS (B209304-BS1)				Prepared & Analyzed: 08/01/18						
pH	5.98		pH Units	6.00		99.7	90-110			
LCS (B209304-BS2)				Prepared & Analyzed: 08/01/18						
pH	6.02		pH Units	6.00		100	90-110			
Batch B209531 - SW-846 9014										
Blank (B209531-BLK1)				Prepared: 08/04/18 Analyzed: 08/06/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B209531-BS1)				Prepared: 08/04/18 Analyzed: 08/06/18						
Reactive Cyanide	9.5	0.40	mg/Kg	10.0		95.4	83.6-111			
Batch B209532 - SW-846 9030A										
Blank (B209532-BLK1)				Prepared: 08/04/18 Analyzed: 08/06/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B209532-BS1)				Prepared: 08/04/18 Analyzed: 08/06/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		97.3	54.9-121			
Batch B209885 - % Solids										
Blank (B209885-BLK1)				Prepared & Analyzed: 08/09/18						
% Solids	0.00		% Wt							
Blank (B209885-BLK2)				Prepared & Analyzed: 08/09/18						
% Solids	0.00		% Wt							
Blank (B209885-BLK3)				Prepared & Analyzed: 08/09/18						
% Solids	0.00		% Wt							
Blank (B209885-BLK4)				Prepared & Analyzed: 08/09/18						
% Solids	0.00		% Wt							
Blank (B209885-BLK5)				Prepared & Analyzed: 08/09/18						
% Solids	0.00		% Wt							
Batch B209889 - SM21-22 2510B Modified										
Blank (B209889-BLK1)				Prepared & Analyzed: 08/09/18						
Specific conductance	ND	2.0	µmhos/cm							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209889 - SM21-22 2510B Modified

LCS (B209889-BS1)

Prepared & Analyzed: 08/09/18

Specific conductance	200		µmhos/cm	192		102	90-110			
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Duplicate (B209889-DUP1)

Source: 18H0015-01

Prepared & Analyzed: 08/09/18

Specific conductance	19	2.0	µmhos/cm			20		6.14	21	
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BREAKDOWN REPORT

Lab Sample ID: S025955-PEM1 **Analyzed:** 08/06/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.81
Endrin [1] 1.80

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.78
Endrin [2] 1.88

BREAKDOWN REPORT

Lab Sample ID: S025955-PEM2 **Analyzed:** 08/07/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.67
Endrin [1] 1.11

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.67
Endrin [2] 1.38

BREAKDOWN REPORT

Lab Sample ID: S025955-PEM3 **Analyzed:** 08/07/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.85
Endrin [1] 1.93

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BREAKDOWN REPORT

Lab Sample ID: S025955-PEM3 Analyzed: 08/07/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.02
Endrin [2]	1.88

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B209432-BS1 Date(s) Analyzed: 08/07/2018 08/07/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.361	0.000	0.000	10.1	
	2	16.243	0.000	0.000	11.6	14.8
2,4,5-TP (Silvex)	1	15.739	0.000	0.000	9.55	
	2	15.389	0.000	0.000	9.77	1.8
2,4-D	1	13.875	0.000	0.000	104	
	2	13.634	0.000	0.000	105	4.9
2,4-DB	1	17.057	0.000	0.000	95.7	
	2	16.967	0.000	0.000	98.4	2.5
Dalapon	1	4.675	0.000	0.000	157	
	2	4.244	0.000	0.000	158	1.3
Dicamba	1	11.737	0.000	0.000	10.6	
	2	11.404	0.000	0.000	9.41	15.6
Dichloroprop	1	13.364	0.000	0.000	105	
	2	12.948	0.000	0.000	102	7.6
Dinoseb	1	17.693	0.000	0.000	3.37	
	2	17.189	0.000	0.000	3.79	10.8
MCPA	1	12.563	0.000	0.000	8920	
	2	12.246	0.000	0.000	8490	4.7
MCPD	1	12.229	0.000	0.000	11600	
	2	11.742	0.000	0.000	8770	31.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8151A

Lab Sample ID: B209432-BSD1 Date(s) Analyzed: 08/07/2018 08/07/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.361	0.000	0.000	10.7	
	2	16.241	0.000	0.000	12.7	14.3
2,4,5-TP (Silvex)	1	15.737	0.000	0.000	10.1	
	2	15.388	0.000	0.000	10.3	3.0
2,4-D	1	13.874	0.000	0.000	111	
	2	13.634	0.000	0.000	110	0.0
2,4-DB	1	17.058	0.000	0.000	104	
	2	16.966	0.000	0.000	105	4.9
Dalapon	1	4.675	0.000	0.000	178	
	2	4.245	0.000	0.000	180	0.0
Dicamba	1	11.735	0.000	0.000	10.2	
	2	11.403	0.000	0.000	9.86	1.4
Dichloroprop	1	13.362	0.000	0.000	109	
	2	12.947	0.000	0.000	107	2.8
Dinoseb	1	17.693	0.000	0.000	8.22	
	2	17.188	0.000	0.000	9.31	12.7
MCPA	1	12.565	0.000	0.000	8850	
	2	12.247	0.000	0.000	9030	1.5
MCPD	1	12.228	0.000	0.000	12200	
	2	11.743	0.000	0.000	9360	24.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

Matrix Spike

Lab Sample ID: B209432-MS1 Date(s) Analyzed: 08/07/2018 08/07/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.361	0.000	0.000	10.9	
	2	16.242	0.000	0.000	13.2	18.2
2,4,5-TP (Silvex)	1	15.739	0.000	0.000	12.8	
	2	15.390	0.000	0.000	11.8	9.7
2,4-D	1	13.875	0.000	0.000	122	
	2	13.635	0.000	0.000	123	2.5
2,4-DB	1	17.054	0.000	0.000	121	
	2	16.965	0.000	0.000	129	7.2
Dalapon	1	4.675	0.000	0.000	205	
	2	4.244	0.000	0.000	209	0.5
Dicamba	1	11.737	0.000	0.000	10.1	
	2	11.405	0.000	0.000	10.5	4.9
Dichloroprop	1	13.364	0.000	0.000	125	
	2	12.949	0.000	0.000	114	13.1
Dinoseb	1	17.685	0.000	0.000	29.7	
	2	17.186	0.000	0.000	27.8	7.6
MCPA	1	12.566	0.000	0.000	11000	
	2	12.250	0.000	0.000	10400	5.6
MCPD	1	12.231	0.000	0.000	13700	
	2	11.746	0.000	0.000	10900	24.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B209432-MSD1 Date(s) Analyzed: 08/07/2018 08/07/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	16.359	0.000	0.000	10.2	
	2	16.240	0.000	0.000	12.8	24.6
2,4,5-TP (Silvex)	1	15.738	0.000	0.000	10.5	
	2	15.388	0.000	0.000	11.1	0.9
2,4-D	1	13.874	0.000	0.000	115	
	2	13.634	0.000	0.000	117	2.5
2,4-DB	1	17.055	0.000	0.000	112	
	2	16.967	0.000	0.000	121	9.5
Dalapon	1	4.675	0.000	0.000	168	
	2	4.245	0.000	0.000	173	1.8
Dicamba	1	11.736	0.000	0.000	9.77	
	2	11.405	0.000	0.000	10.2	4.0
Dichloroprop	1	13.364	0.000	0.000	124	
	2	12.948	0.000	0.000	113	6.0
Dinoseb	1	17.687	0.000	0.000	22.8	
	2	17.187	0.000	0.000	21.2	8.1
MCPA	1	12.564	0.000	0.000	10200	
	2	12.249	0.000	0.000	10000	0.0
MCPP	1	12.229	0.000	0.000	14300	
	2	11.745	0.000	0.000	10400	29.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B209435-BS1 Date(s) Analyzed: 08/06/2018 08/06/2018

Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.13	7.4
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.13	7.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B209435-BSD1 Date(s) Analyzed: 08/06/2018 08/06/2018
 Instrument ID (1): ECD1 Instrument ID (2): ECD1
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.15	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.16	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B209437-BS1 Date(s) Analyzed: 08/07/2018 08/07/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.493	7.464	7.524	0.074	
	2	7.563	7.533	7.593	0.080	7.8
4,4'-DDE	1	7.043	7.014	7.074	0.072	
	2	7.120	7.090	7.150	0.078	8.0
4,4'-DDT	1	7.711	7.681	7.741	0.076	
	2	7.808	7.779	7.839	0.079	3.9
Alachlor	1	6.458	6.428	6.488	0.088	
	2	6.269	6.240	6.300	0.084	4.7
Aldrin	1	6.372	6.342	6.402	0.072	
	2	6.343	6.314	6.374	0.077	6.7
alpha-BHC	1	5.628	5.598	5.658	0.066	
	2	5.597	5.568	5.628	0.072	8.7
alpha-Chlordane	1	6.992	6.962	7.022	0.066	
	2	6.995	6.965	7.025	0.072	8.7
beta-BHC	1	5.889	5.859	5.919	0.069	
	2	5.879	5.850	5.910	0.064	7.5
delta-BHC	1	6.010	5.981	6.041	0.074	
	2	6.076	6.046	6.106	0.072	2.7
Dieldrin	1	7.273	7.244	7.304	0.074	
	2	7.243	7.213	7.273	0.080	7.8
Endosulfan I	1	7.094	7.065	7.125	0.067	
	2	7.038	7.008	7.068	0.076	12.6
Endosulfan II	1	7.619	7.590	7.650	0.070	
	2	7.638	7.609	7.669	0.076	6.8
Endosulfan Sulfate	1	8.246	8.217	8.277	0.072	
	2	8.107	8.077	8.137	0.078	6.6
Endrin	1	7.450	7.421	7.481	0.071	
	2	7.474	7.444	7.504	0.077	8.1
Endrin Aldehyde	1	7.940	7.911	7.971	0.068	
	2	7.902	7.873	7.933	0.073	7.1
Endrin Ketone	1	8.429	8.400	8.460	0.073	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B209437-BS1 Date(s) Analyzed: 08/07/2018 08/07/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.457	8.427	8.487	0.076	4.0
gamma-BHC (Lindane)	1	5.836	5.806	5.866	0.072	
	2	5.826	5.797	5.857	0.076	5.4
gamma-Chlordane	1	6.894	6.864	6.924	0.063	
	2	6.886	6.857	6.917	0.075	17.4
Heptachlor	1	6.160	6.131	6.191	0.070	
	2	6.120	6.091	6.151	0.080	13.3
Heptachlor Epoxide	1	6.802	6.773	6.833	0.068	
	2	6.750	6.720	6.780	0.073	7.1
Hexachlorobenzene	1	5.520	5.491	5.551	0.075	
	2	5.507	5.478	5.538	0.080	6.5
Methoxychlor	1	8.074	8.045	8.105	0.070	
	2	8.305	8.275	8.335	0.081	14.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B209437-BSD1 Date(s) Analyzed: 08/07/2018 08/07/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.493	7.464	7.524	0.092	
	2	7.564	7.533	7.593	0.098	6.3
4,4'-DDE	1	7.043	7.014	7.074	0.089	
	2	7.121	7.090	7.150	0.097	8.6
4,4'-DDT	1	7.710	7.681	7.741	0.095	
	2	7.809	7.779	7.839	0.099	4.1
Alachlor	1	6.458	6.428	6.488	0.10	
	2	6.270	6.240	6.300	0.10	0.0
Aldrin	1	6.373	6.342	6.402	0.088	
	2	6.344	6.314	6.374	0.094	6.6
alpha-BHC	1	5.629	5.598	5.658	0.083	
	2	5.598	5.568	5.628	0.086	3.6
alpha-Chlordane	1	6.992	6.962	7.022	0.081	
	2	6.995	6.965	7.025	0.089	9.4
beta-BHC	1	5.889	5.859	5.919	0.086	
	2	5.880	5.850	5.910	0.080	7.2
delta-BHC	1	6.011	5.981	6.041	0.091	
	2	6.077	6.046	6.106	0.088	3.4
Dieldrin	1	7.274	7.244	7.304	0.091	
	2	7.243	7.213	7.273	0.098	7.4
Endosulfan I	1	7.094	7.065	7.125	0.083	
	2	7.038	7.008	7.068	0.094	12.4
Endosulfan II	1	7.620	7.590	7.650	0.087	
	2	7.639	7.609	7.669	0.093	5.5
Endosulfan Sulfate	1	8.246	8.217	8.277	0.089	
	2	8.107	8.077	8.137	0.095	5.4
Endrin	1	7.450	7.421	7.481	0.087	
	2	7.475	7.444	7.504	0.095	8.8
Endrin Aldehyde	1	7.941	7.911	7.971	0.084	
	2	7.904	7.873	7.933	0.090	6.9
Endrin Ketone	1	8.429	8.400	8.460	0.089	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B209437-BSD1 Date(s) Analyzed: 08/07/2018 08/07/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.457	8.427	8.487	0.092	3.3
gamma-BHC (Lindane)	1	5.836	5.806	5.866	0.089	
	2	5.827	5.797	5.857	0.093	4.4
gamma-Chlordane	1	6.894	6.864	6.924	0.078	
	2	6.887	6.857	6.917	0.093	17.5
Heptachlor	1	6.161	6.131	6.191	0.085	
	2	6.121	6.091	6.151	0.097	13.2
Heptachlor Epoxide	1	6.803	6.773	6.833	0.084	
	2	6.750	6.720	6.780	0.089	5.8
Hexachlorobenzene	1	5.521	5.491	5.551	0.093	
	2	5.508	5.478	5.538	0.094	1.1
Methoxychlor	1	8.073	8.045	8.105	0.087	
	2	8.305	8.275	8.335	0.099	12.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Water	
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



KKM

Address: 101 WALNUT STREET, WILMINGTON, MA
Phone: 603-667-1891
Project Location: WILMINGTON, MA
Project Number: 17970-00
Project Manager: Paul McKinlay

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By:

Requested Turnaround Time:
7-Day 10-Day
Due Date:
1-Day 3-Day
2-Day 4-Day
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: rossell@rockinlab.com
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Compos	Matrix	Date	Code
01	MP-2	7/25/18	10/10	V	S		

Comments: 20x rule for TCLP

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 8/1/18 0930
Relinquished by: (signature) [Signature] Date/Time: 8/1/18 0930
Relinquished by: (signature) [Signature] Date/Time: 8/1/18 1610
Relinquished by: (signature) [Signature] Date/Time: 8/1/18/1610
Relinquished by: (signature) [Signature] Date/Time: 8/1/18/1610
Relinquished by: (signature) [Signature] Date/Time: 8/1/18/1610

Special Requirements:
 MEA RCP Required
 BCL Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 AP State PDB Required
 PWS# 10
 DI frozen 8/1/18 @ 1610

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AIHA-LAP, LLC
 PCB ONLY
 Soxhlet
 Non Soxhlet

# of Containers	Preservation Code	Container Code	ANALYSIS REQUESTED
			Reactivity (conductivity)
			Ignorability pH
			pest/leach
			SVOCs, PCBs, TRH
			VOCs, MCPH, Metals
			Reactive Sulfide
			Reactive Chloride

1 Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:
 I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By SE Date 8/1/18 Time 1610

How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 8 Actual Temp - 3.6
 By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name F
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified?
 Are there Rushes? F Who was notified?
 Are there Short Holds? T Who was notified? David

Is there enough Volume? T
 Is there Headspace where applicable? N/A MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	1	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	2	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: 8/1/18 @ 1610
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

August 16, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H0260

Enclosed are results of analyses for samples received by the laboratory on August 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee".

Kerry K. McGee
Project Manager

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B209859	68
Semivolatile Organic Compounds by GC/MS	73
B209874	73
Organochloride Pesticides by GC/ECD	77
B210085	77
Polychlorinated Biphenyls By GC/ECD	80
B209900	80
Herbicides by GC/ECD	82
B209967	82
Petroleum Hydrocarbons Analyses	85
B209877	85
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B210161	86

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP13	18H0260-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP18	18H0260-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP14	18H0260-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP21	18H0260-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP25	18H0260-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 08/13/18

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SM21-22 2510B Modified

Qualifications:**R-02**

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**Specific conductance**

18H0260-01[MP13], B210003-DUP1

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0260-01[MP13], 18H0260-04[MP21], 18H0260-05[MP25]

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25]

SW-846 8100 Modified

Qualifications:**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18H0260-01[MP13], 18H0260-04[MP21]

SW-846 8151A

Qualifications:**R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209967-BLK1, B209967-BS1, B209967-BSD1, B209967-MS1, B209967-MSD1

Dinoseb [2C]

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209967-BLK1, B209967-BS1, B209967-BSD1, B209967-MS1, B209967-MSD1

SW-846 8260C

Qualifications:**L-07A**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

B209755-BSD1

2-Hexanone (MBK)

B209755-BSD1

Acetone

B209755-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

2-Hexanone (MBK)

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

Acetone

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1, S025986-CCV1, S026047-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBP)**

B209859-BS1, B209859-BSD1, S026047-CCV1

Bromochloromethane

B209859-BS1, B209859-BSD1, S026047-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1, S025986-CCV1, S026047-CCV1

SW-846 8270D**Qualifications:****RL-08**

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

18H0260-04[MP21]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209874-BLK1, B209874-BS1, B209874-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopyscinski". The signature is written in a cursive, somewhat stylized script.

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloroethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Diethyl Ether	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Diisopropyl Ether (DIPE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,4-Dioxane	ND	0.093	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Methylene Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	8/7/18 14:59
Toluene-d8	96.3	70-130	8/7/18 14:59
4-Bromofluorobenzene	96.9	70-130	8/7/18 14:59

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Acenaphthylene	0.47	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Anthracene	0.20	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(a)anthracene	1.2	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(a)pyrene	1.6	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(b)fluoranthene	1.8	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(g,h,i)perylene	2.0	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(k)fluoranthene	0.71	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Chrysene	1.3	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dibenz(a,h)anthracene	0.42	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Fluoranthene	1.8	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 12:30

Field Sample #: MP13

Sample ID: 18H0260-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Phenanthrene	0.55	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pyrene	2.1	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		64.6	30-130					8/10/18 19:13	
Phenol-d6		65.0	30-130					8/10/18 19:13	
Nitrobenzene-d5		62.2	30-130					8/10/18 19:13	
2-Fluorobiphenyl		71.4	30-130					8/10/18 19:13	
2,4,6-Tribromophenol		60.9	30-130					8/10/18 19:13	
p-Terphenyl-d14		85.6	30-130					8/10/18 19:13	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Aldrin [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
alpha-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
beta-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
delta-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
gamma-BHC (Lindane) [2]	ND	0.021	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Chlordane [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDD [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDE [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDT [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Dieldrin [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan I [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan II [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan sulfate [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin aldehyde [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin ketone [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Heptachlor [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Heptachlor epoxide [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Hexachlorobenzene [2]	ND	0.062	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Methoxychlor [2]	ND	0.52	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Toxaphene [2]	ND	1.0	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.0	30-150					8/15/18 1:21	
Decachlorobiphenyl [2]		99.2	30-150					8/15/18 1:21	
Tetrachloro-m-xylene [1]		67.4	30-150					8/15/18 1:21	
Tetrachloro-m-xylene [2]		70.8	30-150					8/15/18 1:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.9	30-150					8/14/18 17:47	
Decachlorobiphenyl [2]		86.2	30-150					8/14/18 17:47	
Tetrachloro-m-xylene [1]		78.2	30-150					8/14/18 17:47	
Tetrachloro-m-xylene [2]		80.4	30-150					8/14/18 17:47	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 12:30

Field Sample #: MP13

Sample ID: 18H0260-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 1:14	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	82.1	30-150						8/16/18 1:14	
2,4-Dichlorophenylacetic acid [2]	90.3	30-150						8/16/18 1:14	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	290	170	mg/Kg dry	20		SW-846 8100 Modified	8/8/18	8/11/18 1:50	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			8/11/18 1:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 12:30

Field Sample #: MP13

Sample ID: 18H0260-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Arsenic	8.6	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Barium	28	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Cadmium	0.31	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Chromium	15	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Lead	8.0	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:48	EJB
Nickel	12	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Vanadium	15	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Zinc	27	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.2°C	7.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	21	2.0	µmhos/cm	1	R-02	SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	96.1		% Wt	1		SM 2540G	8/10/18	8/12/18 10:40	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.055	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromomethane	ND	0.0055	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chlorodibromomethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloroethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloromethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dibromoethane (EDB)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3-Dichloropropane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
cis-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
trans-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Diethyl Ether	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Diisopropyl Ether (DIPE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,4-Dioxane	ND	0.055	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Methylene Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Naphthalene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Tetrahydrofuran	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Vinyl Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.7	70-130	8/7/18 15:26
Toluene-d8	95.3	70-130	8/7/18 15:26
4-Bromofluorobenzene	92.6	70-130	8/7/18 15:26

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		67.3	30-130					8/10/18 19:35	
Phenol-d6		68.5	30-130					8/10/18 19:35	
Nitrobenzene-d5		63.5	30-130					8/10/18 19:35	
2-Fluorobiphenyl		72.7	30-130					8/10/18 19:35	
2,4,6-Tribromophenol		63.4	30-130					8/10/18 19:35	
p-Terphenyl-d14		95.2	30-130					8/10/18 19:35	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 16:00

Field Sample #: MP18

Sample ID: 18H0260-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Aldrin [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
alpha-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
beta-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
delta-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
gamma-BHC (Lindane) [2]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Chlordane [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDD [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDE [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDT [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Dieldrin [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan I [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan II [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan sulfate [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin aldehyde [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin ketone [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Heptachlor [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Heptachlor epoxide [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Hexachlorobenzene [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Methoxychlor [2]	ND	0.052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Toxaphene [2]	ND	0.10	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.9	30-150					8/15/18 1:48	
Decachlorobiphenyl [2]		72.6	30-150					8/15/18 1:48	
Tetrachloro-m-xylene [1]		67.6	30-150					8/15/18 1:48	
Tetrachloro-m-xylene [2]		60.2	30-150					8/15/18 1:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.0	30-150					8/14/18 18:04	
Decachlorobiphenyl [2]		85.8	30-150					8/14/18 18:04	
Tetrachloro-m-xylene [1]		82.4	30-150					8/14/18 18:04	
Tetrachloro-m-xylene [2]		84.8	30-150					8/14/18 18:04	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 16:00

Field Sample #: MP18

Sample ID: 18H0260-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 1:53	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	77.2	30-150						8/16/18 1:53	
2,4-Dichlorophenylacetic acid [2]	82.6	30-150						8/16/18 1:53	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.6	mg/Kg dry	1		SW-846 8100 Modified	8/8/18	8/10/18 20:46	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		90.1	40-140					8/10/18 20:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 16:00

Field Sample #: MP18

Sample ID: 18H0260-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Arsenic	4.9	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Barium	24	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Cadmium	0.19	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Lead	5.4	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:49	EJB
Nickel	9.1	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Vanadium	13	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Zinc	19	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.4°C	5.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	95.9		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chlorodibromomethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloroethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
trans-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Diethyl Ether	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Diisopropyl Ether (DIPE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,4-Dioxane	ND	0.067	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Methylene Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	8/7/18 15:55
Toluene-d8	95.3	70-130	8/7/18 15:55
4-Bromofluorobenzene	93.0	70-130	8/7/18 15:55

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.4	30-130					8/10/18 19:57	
Phenol-d6		58.6	30-130					8/10/18 19:57	
Nitrobenzene-d5		56.3	30-130					8/10/18 19:57	
2-Fluorobiphenyl		60.4	30-130					8/10/18 19:57	
2,4,6-Tribromophenol		49.2	30-130					8/10/18 19:57	
p-Terphenyl-d14		78.8	30-130					8/10/18 19:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Aldrin [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
alpha-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
beta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
delta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
gamma-BHC (Lindane) [2]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Chlordane [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDT [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Dieldrin [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan I [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan II [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan sulfate [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin aldehyde [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin ketone [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Heptachlor [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Heptachlor epoxide [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Hexachlorobenzene [2]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Methoxychlor [2]	ND	0.054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Toxaphene [2]	ND	0.11	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.5	30-150					8/15/18 2:14	
Decachlorobiphenyl [2]		69.1	30-150					8/15/18 2:14	
Tetrachloro-m-xylene [1]		59.6	30-150					8/15/18 2:14	
Tetrachloro-m-xylene [2]		52.5	30-150					8/15/18 2:14	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					8/14/18 18:21	
Decachlorobiphenyl [2]		102	30-150					8/14/18 18:21	
Tetrachloro-m-xylene [1]		89.3	30-150					8/14/18 18:21	
Tetrachloro-m-xylene [2]		91.5	30-150					8/14/18 18:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/2/2018 12:00

Field Sample #: MP14

Sample ID: 18H0260-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 2:32	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	79.4	30-150						8/16/18 2:32	
2,4-Dichlorophenylacetic acid [2]	79.9	30-150						8/16/18 2:32	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	92	18	mg/Kg dry	2		SW-846 8100 Modified	8/8/18	8/11/18 3:01	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		67.5	40-140					8/11/18 3:01	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/2/2018 12:00

Field Sample #: MP14

Sample ID: 18H0260-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Arsenic	8.2	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Barium	19	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Cadmium	0.31	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Chromium	12	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Lead	16	0.54	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:55	EJB
Nickel	11	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Vanadium	12	0.72	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Zinc	31	0.72	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.5°C	7.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	17	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	91.9		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromoform	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chlorodibromomethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloroethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2,2-Dichloropropane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
trans-1,3-Dichloropropene	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Diethyl Ether	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,4-Dioxane	ND	0.067	mg/Kg dry	1	V-16	SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Methylene Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	8/8/18 14:17
Toluene-d8	95.5	70-130	8/8/18 14:17
4-Bromofluorobenzene	92.8	70-130	8/8/18 14:17

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatiles Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Acenaphthylene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Acetophenone	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Aniline	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(a)anthracene	2.6	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(a)pyrene	2.4	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(b)fluoranthene	2.7	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(g,h,i)perylene	1.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(k)fluoranthene	1.1	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Butylbenzylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Chloroaniline	ND	2.7	mg/Kg dry	2	V-34	SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Chloronaphthalene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Chlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Chrysene	2.6	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dibenz(a,h)anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dibenzofuran	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Di-n-butylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,3-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,4-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
3,3-Dichlorobenzidine	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Diethylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dimethylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dinitrophenol	ND	2.7	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Di-n-octylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Fluoranthene	3.4	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Fluorene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachlorobutadiene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachloroethane	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Isophorone	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Methylnaphthalene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
3/4-Methylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Naphthalene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Nitrobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Nitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Nitrophenol	ND	2.7	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pentachlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Phenanthrene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Phenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pyrene	4.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pyridine	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2,4-Trichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4,5-Trichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4,6-Trichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.6	30-130					8/10/18 20:19	
Phenol-d6		60.2	30-130					8/10/18 20:19	
Nitrobenzene-d5		57.2	30-130					8/10/18 20:19	
2-Fluorobiphenyl		60.8	30-130					8/10/18 20:19	
2,4,6-Tribromophenol		48.3	30-130					8/10/18 20:19	
p-Terphenyl-d14		85.1	30-130					8/10/18 20:19	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.42	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Aldrin [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
alpha-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
beta-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
delta-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
gamma-BHC (Lindane) [2]	ND	0.042	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Chlordane [2]	ND	0.42	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDD [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDE [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDT [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Dieldrin [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan I [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan II [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan sulfate [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin aldehyde [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin ketone [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Heptachlor [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Heptachlor epoxide [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Hexachlorobenzene [2]	ND	0.13	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Methoxychlor [2]	ND	1.0	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Toxaphene [2]	ND	2.1	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.6	30-150					8/15/18 2:41	
Decachlorobiphenyl [2]		88.7	30-150					8/15/18 2:41	
Tetrachloro-m-xylene [1]		63.4	30-150					8/15/18 2:41	
Tetrachloro-m-xylene [2]		71.8	30-150					8/15/18 2:41	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.6	30-150					8/14/18 18:39	
Decachlorobiphenyl [2]		64.9	30-150					8/14/18 18:39	
Tetrachloro-m-xylene [1]		75.5	30-150					8/14/18 18:39	
Tetrachloro-m-xylene [2]		77.6	30-150					8/14/18 18:39	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 10:00

Field Sample #: MP21

Sample ID: 18H0260-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 3:11	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	75.2	30-150						8/16/18 3:11	
2,4-Dichlorophenylacetic acid [2]	76.3	30-150						8/16/18 3:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	670	350	mg/Kg dry	20		SW-846 8100 Modified	8/8/18	8/11/18 2:43	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			8/11/18 2:43	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 10:00

Field Sample #: MP21

Sample ID: 18H0260-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Arsenic	8.4	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Barium	30	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Cadmium	0.34	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Chromium	14	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Lead	38	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:57	EJB
Nickel	13	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Vanadium	18	0.70	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Zinc	31	0.70	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.2°C	8.0		pH Units	1		SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	95.4		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromoform	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2,2-Dichloropropane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
trans-1,3-Dichloropropene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
n-Propylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Styrene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.8	70-130	8/8/18 14:44
Toluene-d8	96.1	70-130	8/8/18 14:44
4-Bromofluorobenzene	94.3	70-130	8/8/18 14:44

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(a)pyrene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(b)fluoranthene	0.30	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(g,h,i)perylene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Fluoranthene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pyrene	0.39	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		65.7	30-130					8/10/18 20:42	
Phenol-d6		63.2	30-130					8/10/18 20:42	
Nitrobenzene-d5		61.8	30-130					8/10/18 20:42	
2-Fluorobiphenyl		67.5	30-130					8/10/18 20:42	
2,4,6-Tribromophenol		54.3	30-130					8/10/18 20:42	
p-Terphenyl-d14		83.4	30-130					8/10/18 20:42	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Aldrin [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
alpha-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
beta-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
delta-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
gamma-BHC (Lindane) [2]	ND	0.021	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Chlordane [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDD [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDE [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDT [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Dieldrin [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan I [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan II [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan sulfate [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin aldehyde [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin ketone [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Heptachlor [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Heptachlor epoxide [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Hexachlorobenzene [2]	ND	0.064	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Methoxychlor [2]	ND	0.53	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Toxaphene [2]	ND	1.1	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					8/15/18 3:08	
Decachlorobiphenyl [2]		84.6	30-150					8/15/18 3:08	
Tetrachloro-m-xylene [1]		69.8	30-150					8/15/18 3:08	
Tetrachloro-m-xylene [2]		73.5	30-150					8/15/18 3:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.5	30-150					8/14/18 18:57	
Decachlorobiphenyl [2]		75.7	30-150					8/14/18 18:57	
Tetrachloro-m-xylene [1]		81.1	30-150					8/14/18 18:57	
Tetrachloro-m-xylene [2]		82.9	30-150					8/14/18 18:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 11:00

Field Sample #: MP25

Sample ID: 18H0260-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 3:50	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	79.0	30-150						8/16/18 3:50	
2,4-Dichlorophenylacetic acid [2]	85.8	30-150						8/16/18 3:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	89	18	mg/Kg dry	2		SW-846 8100 Modified	8/8/18	8/11/18 3:01	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		78.4	40-140					8/11/18 3:01	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 11:00

Field Sample #: MP25

Sample ID: 18H0260-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Arsenic	5.3	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Barium	15	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Cadmium	0.19	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Chromium	8.4	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Lead	33	0.53	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:58	EJB
Nickel	7.0	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Vanadium	9.6	0.71	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Zinc	28	0.71	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.1°C	7.2		pH Units	1		SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	94.3		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0260-01 [MP13]	B210054	08/10/18
18H0260-02 [MP18]	B210054	08/10/18
18H0260-03 [MP14]	B210054	08/10/18
18H0260-04 [MP21]	B210054	08/10/18
18H0260-05 [MP25]	B210054	08/10/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B210003	1.00	08/10/18
18H0260-02 [MP18]	B210003	1.00	08/10/18
18H0260-03 [MP14]	B210003	1.00	08/10/18
18H0260-04 [MP21]	B210003	1.00	08/10/18
18H0260-05 [MP25]	B210003	1.00	08/10/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B209835	50.0	08/08/18
18H0260-02 [MP18]	B209835	50.0	08/08/18
18H0260-03 [MP14]	B209835	50.0	08/08/18
18H0260-04 [MP21]	B209835	50.0	08/08/18
18H0260-05 [MP25]	B209835	50.0	08/08/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210161	1.50	50.0	08/13/18
18H0260-02 [MP18]	B210161	1.50	50.0	08/13/18
18H0260-03 [MP14]	B210161	1.50	50.0	08/13/18
18H0260-04 [MP21]	B210161	1.51	50.0	08/13/18
18H0260-05 [MP25]	B210161	1.50	50.0	08/13/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210164	0.617	50.0	08/13/18
18H0260-02 [MP18]	B210164	0.626	50.0	08/13/18
18H0260-03 [MP14]	B210164	0.634	50.0	08/13/18
18H0260-04 [MP21]	B210164	0.613	50.0	08/13/18
18H0260-05 [MP25]	B210164	0.608	50.0	08/13/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210085	10.0	10.0	08/11/18
18H0260-02 [MP18]	B210085	10.0	10.0	08/11/18
18H0260-03 [MP14]	B210085	10.0	10.0	08/11/18
18H0260-04 [MP21]	B210085	10.0	10.0	08/11/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-05 [MP25]	B210085	10.0	10.0	08/11/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209900	10.0	10.0	08/09/18
18H0260-02 [MP18]	B209900	10.0	10.0	08/09/18
18H0260-03 [MP14]	B209900	10.0	10.0	08/09/18
18H0260-04 [MP21]	B209900	10.0	10.0	08/09/18
18H0260-05 [MP25]	B209900	10.0	10.0	08/09/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209877	30.4	1.00	08/08/18
18H0260-02 [MP18]	B209877	30.2	1.00	08/08/18
18H0260-03 [MP14]	B209877	30.2	1.00	08/08/18
18H0260-04 [MP21]	B209877	30.3	2.00	08/08/18
18H0260-05 [MP25]	B209877	30.0	1.00	08/08/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209967	20.0	5.00	08/10/18
18H0260-02 [MP18]	B209967	20.0	5.00	08/10/18
18H0260-03 [MP14]	B209967	20.2	5.00	08/10/18
18H0260-04 [MP21]	B209967	20.2	5.00	08/10/18
18H0260-05 [MP25]	B209967	20.2	5.00	08/10/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209755	5.61	10.0	08/07/18
18H0260-02 [MP18]	B209755	9.52	10.0	08/07/18
18H0260-03 [MP14]	B209755	8.16	10.0	08/07/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-04 [MP21]	B209859	7.85	10.0	08/08/18
18H0260-05 [MP25]	B209859	6.57	10.0	08/08/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209874	30.4	1.00	08/08/18
18H0260-02 [MP18]	B209874	30.2	1.00	08/08/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-03 [MP14]	B209874	30.2	1.00	08/08/18
18H0260-04 [MP21]	B209874	30.3	2.00	08/08/18
18H0260-05 [MP25]	B209874	30.0	1.00	08/08/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210053	25.2	250	08/10/18
18H0260-02 [MP18]	B210053	25.1	250	08/10/18
18H0260-03 [MP14]	B210053	25.6	250	08/10/18
18H0260-04 [MP21]	B210053	25.6	250	08/10/18
18H0260-05 [MP25]	B210053	25.2	250	08/10/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210158	25.2	250	08/10/18
18H0260-02 [MP18]	B210158	25.1	250	08/10/18
18H0260-03 [MP14]	B210158	25.6	250	08/10/18
18H0260-04 [MP21]	B210158	25.6	250	08/10/18
18H0260-05 [MP25]	B210158	25.2	250	08/10/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B209662	20.0	08/06/18
18H0260-02 [MP18]	B209662	20.0	08/06/18
18H0260-03 [MP14]	B209662	20.0	08/06/18
18H0260-04 [MP21]	B209662	20.0	08/06/18
18H0260-05 [MP25]	B209662	20.0	08/06/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
Blank (B209755-BLK1)										
Prepared & Analyzed: 08/07/18										
Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209755 - SW-846 5035

Blank (B209755-BLK1)

Prepared & Analyzed: 08/07/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0488		mg/Kg wet	0.0500		97.5	70-130			
Surrogate: Toluene-d8	0.0483		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0472		mg/Kg wet	0.0500		94.4	70-130			

LCS (B209755-BS1)

Prepared & Analyzed: 08/07/18

Acetone	0.254	0.10	mg/Kg wet	0.200		127	40-160			R-05 †
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
Benzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Bromobenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromoform	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		60.2	40-160			L-14, V-05, V-34 †
2-Butanone (MEK)	0.261	0.040	mg/Kg wet	0.200		130	40-160			R-05 †
n-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
sec-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
tert-Butylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0196	0.0060	mg/Kg wet	0.0200		97.9	70-130			
Carbon Tetrachloride	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Chlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0176	0.010	mg/Kg wet	0.0200		87.9	70-130			
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200		103	40-160			†
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,3-Dichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,4-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
LCS (B209755-BS1)										
Prepared & Analyzed: 08/07/18										
Dichlorodifluoromethane (Freon 12)	0.0240	0.010	mg/Kg wet	0.0200		120	40-160			†
1,1-Dichloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethylene	0.0181	0.0040	mg/Kg wet	0.0200		90.6	70-130			
cis-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloropropane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		99.3	70-130			
2,2-Dichloropropane	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130			
1,1-Dichloropropene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Diethyl Ether	0.0179	0.010	mg/Kg wet	0.0200		89.3	70-130			
Diisopropyl Ether (DIPE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103	40-160			V-16 †
Ethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Hexachlorobutadiene	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
2-Hexanone (MBK)	0.227	0.020	mg/Kg wet	0.200		113	40-160			R-05 †
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Methylene Chloride	0.0182	0.010	mg/Kg wet	0.0200		91.2	70-130			
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		98.8	40-160			†
Naphthalene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,1,1,2-Tetrachloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0166	0.010	mg/Kg wet	0.0200		82.8	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,1-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Trichlorofluoromethane (Freon 11)	0.0163	0.010	mg/Kg wet	0.0200		81.3	70-130			
1,2,3-Trichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,4-Trimethylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Vinyl Chloride	0.0193	0.010	mg/Kg wet	0.0200		96.7	70-130			
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0468		mg/Kg wet	0.0500		93.7	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
LCS Dup (B209755-BSD1)										
					Prepared & Analyzed: 08/07/18					
Acetone	0.416	0.10	mg/Kg wet	0.200		208 *	40-160	48.3 *	20	L-07A, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	2.04	20	
Benzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	1.03	20	
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.85	20	
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	0.0344	20	
Bromodichloromethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	3.07	20	
Bromoform	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.963	20	
Bromomethane	0.0126	0.010	mg/Kg wet	0.0200		63.2	40-160	4.83	20	L-14, V-05, V-34 †
2-Butanone (MEK)	0.405	0.040	mg/Kg wet	0.200		202 *	40-160	43.2 *	20	L-07A, R-05 †
n-Butylbenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	2.02	20	
sec-Butylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	1.95	20	
tert-Butylbenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	1.19	20	
tert-Butyl Ethyl Ether (TBEE)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	2.12	20	
Carbon Disulfide	0.0193	0.0060	mg/Kg wet	0.0200		96.6	70-130	1.28	20	
Carbon Tetrachloride	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.77	20	
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.849	20	
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	0.462	20	
Chloroethane	0.0173	0.010	mg/Kg wet	0.0200		86.6	70-130	1.42	20	
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130	1.60	20	
Chloromethane	0.0202	0.010	mg/Kg wet	0.0200		101	40-160	2.10	20	†
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	2.00	20	
4-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.16	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	4.45	20	
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	2.04	20	
Dibromomethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.52	20	
1,2-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.641	20	
1,3-Dichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	2.02	20	
1,4-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.151	20	
Dichlorodifluoromethane (Freon 12)	0.0235	0.010	mg/Kg wet	0.0200		118	40-160	1.79	20	†
1,1-Dichloroethane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	0.0605	20	
1,2-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.117	20	
1,1-Dichloroethylene	0.0185	0.0040	mg/Kg wet	0.0200		92.7	70-130	2.30	20	
cis-1,2-Dichloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	0.302	20	
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.303	20	
1,2-Dichloropropane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.13	20	
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	2.07	20	
2,2-Dichloropropane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	0.369	20	
1,1-Dichloropropene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.459	20	
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	1.85	20	
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	0.995	20	
Diethyl Ether	0.0177	0.010	mg/Kg wet	0.0200		88.7	70-130	0.708	20	
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	0.828	20	
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103	40-160	0.146	20	V-16 †
Ethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	0.437	20	
Hexachlorobutadiene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130	2.15	20	
2-Hexanone (MBK)	0.349	0.020	mg/Kg wet	0.200		175 *	40-160	42.5 *	20	L-07A, R-05 †
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	0.402	20	
p-Isopropyltoluene (p-Cymene)	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	2.75	20	
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130	1.89	20	
Methylene Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.6	70-130	0.704	20	
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160	9.18	20	†
Naphthalene	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130	1.34	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209755 - SW-846 5035

LCS Dup (B209755-BSD1)

Prepared & Analyzed: 08/07/18

n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.03	20	
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	0.0102	20	
1,1,1,2-Tetrachloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	0.210	20	
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130	3.15	20	
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	1.05	20	
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		90.2	70-130	8.65	20	
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	0.523	20	
1,2,3-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.62	20	
1,2,4-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.30	20	
1,1,1-Trichloroethane	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	2.71	20	
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.701	20	
Trichloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	1.61	20	
Trichlorofluoromethane (Freon 11)	0.0161	0.010	mg/Kg wet	0.0200		80.7	70-130	0.778	20	
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	4.09	20	
1,2,4-Trimethylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	2.07	20	
1,3,5-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	0.911	20	
Vinyl Chloride	0.0194	0.010	mg/Kg wet	0.0200		96.9	70-130	0.289	20	
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130	0.180	20	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.0464		mg/Kg wet	0.0500		92.7	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

Batch B209859 - SW-846 5035

Blank (B209859-BLK1)

Prepared & Analyzed: 08/08/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
Blank (B209859-BLK1)										
Prepared & Analyzed: 08/08/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0474		mg/Kg wet	0.0500		94.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
LCS (B209859-BS1)										
Prepared & Analyzed: 08/08/18										
Acetone	0.164	0.10	mg/Kg wet	0.200		82.2	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Benzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			V-20
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0110	0.010	mg/Kg wet	0.0200		54.9	40-160			L-14, V-05, V-34 †
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	40-160			†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
sec-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130			
Carbon Disulfide	0.0184	0.0060	mg/Kg wet	0.0200		91.9	70-130			
Carbon Tetrachloride	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorodibromomethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0162	0.010	mg/Kg wet	0.0200		81.0	70-130			
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Chloromethane	0.0190	0.010	mg/Kg wet	0.0200		95.1	40-160			†
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			V-20
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0211	0.010	mg/Kg wet	0.0200		105	40-160			†
1,1-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,1-Dichloroethylene	0.0174	0.0040	mg/Kg wet	0.0200		86.8	70-130			
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Diethyl Ether	0.0176	0.010	mg/Kg wet	0.0200		88.0	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.187	0.10	mg/Kg wet	0.200		93.4	40-160			V-16 †
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160			†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0163	0.010	mg/Kg wet	0.0200		81.3	70-130			
4-Methyl-2-pentanone (MIBK)	0.205	0.020	mg/Kg wet	0.200		103	40-160			†
Naphthalene	0.0200	0.0040	mg/Kg wet	0.0200		99.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209859 - SW-846 5035

LCS (B209859-BS1)

Prepared & Analyzed: 08/08/18

n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Styrene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,1,1,2-Tetrachloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Tetrahydrofuran	0.0190	0.010	mg/Kg wet	0.0200		95.1	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,2,3-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,4-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1-Trichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130			
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.6	70-130			
m+p Xylene	0.0377	0.0040	mg/Kg wet	0.0400		94.2	70-130			
o-Xylene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.2	70-130			

LCS Dup (B209859-BS1)

Prepared & Analyzed: 08/08/18

Acetone	0.169	0.10	mg/Kg wet	0.200		84.5	40-160	2.77	20	†
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	0.305	20	
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	3.07	20	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.75	20	
Bromochloromethane	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130	4.63	20	V-20
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.58	20	
Bromoform	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	4.11	20	
Bromomethane	0.0118	0.010	mg/Kg wet	0.0200		59.0	40-160	7.24	20	L-14, V-05, V-34 †
2-Butanone (MEK)	0.219	0.040	mg/Kg wet	0.200		110	40-160	3.48	20	†
n-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	8.07	20	
sec-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	6.72	20	
tert-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.23	20	
tert-Butyl Ethyl Ether (TBEE)	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130	0.228	20	
Carbon Disulfide	0.0189	0.0060	mg/Kg wet	0.0200		94.4	70-130	2.71	20	
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.01	20	
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.62	20	
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	3.45	20	
Chloroethane	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	4.06	20	
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130	2.49	20	
Chloromethane	0.0189	0.010	mg/Kg wet	0.0200		94.6	40-160	0.527	20	†
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.326	20	
4-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	2.52	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	0.337	20	V-20
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	0.735	20	
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	20	
1,2-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	7.94	20	
1,3-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	6.65	20	
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	7.99	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
LCS Dup (B209859-BSD1)										
Prepared & Analyzed: 08/08/18										
Dichlorodifluoromethane (Freon 12)	0.0214	0.010	mg/Kg wet	0.0200		107	40-160	1.27	20	†
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	2.59	20	
1,2-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.26	20	
1,1-Dichloroethylene	0.0177	0.0040	mg/Kg wet	0.0200		88.5	70-130	1.93	20	
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.50	20	
trans-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.83	20	
1,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	5.71	20	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	0.578	20	
2,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	1.21	20	
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.65	20	
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	0.270	20	
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	3.34	20	
Diethyl Ether	0.0175	0.010	mg/Kg wet	0.0200		87.7	70-130	0.330	20	
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	2.01	20	
1,4-Dioxane	0.184	0.10	mg/Kg wet	0.200		91.8	40-160	1.75	20	V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.12	20	
Hexachlorobutadiene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	7.00	20	
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160	0.0343	20	†
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.04	20	
p-Isopropyltoluene (p-Cymene)	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	7.63	20	
Methyl tert-Butyl Ether (MTBE)	0.0215	0.0040	mg/Kg wet	0.0200		108	70-130	1.34	20	
Methylene Chloride	0.0167	0.010	mg/Kg wet	0.0200		83.5	70-130	2.63	20	
4-Methyl-2-pentanone (MIBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160	2.26	20	†
Naphthalene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	6.11	20	
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.328	20	
Styrene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	1.08	20	
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.77	20	
1,1,2,2-Tetrachloroethane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	0.752	20	
Tetrachloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.51	20	
Tetrahydrofuran	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130	3.61	20	
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.61	20	
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	6.29	20	
1,2,4-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.91	20	
1,1,1-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	1.89	20	
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.83	20	
Trichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	5.40	20	
Trichlorofluoromethane (Freon 11)	0.0156	0.010	mg/Kg wet	0.0200		77.8	70-130	3.25	20	
1,2,3-Trichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.22	20	
1,2,4-Trimethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	5.53	20	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	0.0209	20	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		93.2	70-130	4.99	20	
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.5	70-130	3.43	20	
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.5	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0478		mg/Kg wet	0.0500		95.7	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

Blank (B209874-BLK1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

Blank (B209874-BLK1)

Prepared: 08/08/18 Analyzed: 08/10/18

Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.63		mg/Kg wet	6.67		69.4	30-130			
Surrogate: Phenol-d6	4.70		mg/Kg wet	6.67		70.5	30-130			
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2,4,6-Tribromophenol	3.63		mg/Kg wet	6.67		54.5	30-130			
Surrogate: p-Terphenyl-d14	2.69		mg/Kg wet	3.33		80.6	30-130			

LCS (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.7	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acetophenone	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			
Aniline	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Bis(2-chloroethoxy)methane	1.12	0.34	mg/Kg wet	1.67		67.3	40-140			
Bis(2-chloroethyl)ether	0.990	0.34	mg/Kg wet	1.67		59.4	40-140			
Bis(2-chloroisopropyl)ether	1.28	0.34	mg/Kg wet	1.67		76.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
4-Bromophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.4	40-140			
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			
4-Chloroaniline	1.01	0.66	mg/Kg wet	1.67		60.9	15-140			V-34 †
2-Chloronaphthalene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140			
2-Chlorophenol	1.12	0.34	mg/Kg wet	1.67		67.0	30-130			
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140			
Dibenzofuran	1.12	0.34	mg/Kg wet	1.67		66.9	40-140			
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
1,2-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		63.1	40-140			
1,3-Dichlorobenzene	0.997	0.34	mg/Kg wet	1.67		59.8	40-140			
1,4-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.3	40-140			
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
2,4-Dichlorophenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130			
Diethylphthalate	1.03	0.34	mg/Kg wet	1.67		61.6	40-140			
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.6	40-140			
2,4-Dinitrophenol	0.448	0.66	mg/Kg wet	1.67		26.9	15-140			†
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
2,6-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140			
Di-n-octylphthalate	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

LCS (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Hexachlorobenzene	1.05	0.34	mg/Kg wet	1.67		62.7	40-140			
Hexachlorobutadiene	1.02	0.34	mg/Kg wet	1.67		61.0	40-140			
Hexachloroethane	0.990	0.34	mg/Kg wet	1.67		59.4	40-140			
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
2-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.3	30-130			
3/4-Methylphenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.8	40-140			
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		71.7	30-130			
4-Nitrophenol	1.21	0.66	mg/Kg wet	1.67		72.7	15-140			†
Pentachlorophenol	0.605	0.34	mg/Kg wet	1.67		36.3	30-130			
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Phenol	1.13	0.34	mg/Kg wet	1.67		67.5	15-140			†
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Pyridine	0.742	0.34	mg/Kg wet	1.67		44.5	30-140			†
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140			
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.8	30-130			
2,4,6-Trichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.7	30-130			
Surrogate: 2-Fluorophenol	4.80		mg/Kg wet	6.67		72.0	30-130			
Surrogate: Phenol-d6	4.96		mg/Kg wet	6.67		74.3	30-130			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.35		mg/Kg wet	6.67		65.2	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.2	30-130			

LCS Dup (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	5.94	30	
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.7	40-140	6.96	30	
Acetophenone	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	8.67	30	
Aniline	0.868	0.34	mg/Kg wet	1.67		52.1	40-140	22.8	30	
Anthracene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	5.30	30	
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	5.71	30	
Benzo(a)pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	6.51	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	7.03	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	7.07	30	
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	5.07	30	
Bis(2-chloroethoxy)methane	1.24	0.34	mg/Kg wet	1.67		74.3	40-140	9.80	30	
Bis(2-chloroethyl)ether	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	14.8	30	
Bis(2-chloroisopropyl)ether	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	13.0	30	
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	6.07	30	
4-Bromophenylphenylether	1.12	0.34	mg/Kg wet	1.67		66.9	40-140	3.87	30	
Butylbenzylphthalate	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	5.78	30	
4-Chloroaniline	0.833	0.66	mg/Kg wet	1.67		50.0	15-140	19.6	30	V-34 †
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		62.8	40-140	7.40	30	
2-Chlorophenol	1.22	0.34	mg/Kg wet	1.67		73.4	30-130	9.03	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	5.15	30	
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	7.32	30	
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.8	40-140	5.72	30	
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	5.21	30	
1,2-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.5	40-140	8.15	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209874 - SW-846 3546										
LCS Dup (B209874-BSD1)										
					Prepared: 08/08/18 Analyzed: 08/10/18					
1,3-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140	9.85	30	
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	9.50	30	
3,3-Dichlorobenzidine	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	20.0	30	
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2	30-130	7.39	30	
Diethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	5.28	30	
2,4-Dimethylphenol	1.35	0.34	mg/Kg wet	1.67		81.2	30-130	7.64	30	
Dimethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.6	40-140	5.94	30	
2,4-Dinitrophenol	0.478	0.66	mg/Kg wet	1.67		28.7	15-140	6.55	30	†
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	5.89	30	
2,6-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	5.16	30	
Di-n-octylphthalate	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	5.48	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	7.72	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	2.53	30	
Fluorene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140	4.74	30	
Hexachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4	40-140	4.24	30	
Hexachlorobutadiene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	7.05	30	
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	8.57	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140	1.56	30	
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	8.76	30	
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	8.87	30	
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.1	30-130	7.27	30	
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.0	30-130	6.64	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	9.56	30	
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.5	40-140	11.7	30	
2-Nitrophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130	9.18	30	
4-Nitrophenol	1.28	0.66	mg/Kg wet	1.67		77.1	15-140	5.88	30	†
Pentachlorophenol	0.620	0.34	mg/Kg wet	1.67		37.2	30-130	2.45	30	
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	4.98	30	
Phenol	1.21	0.34	mg/Kg wet	1.67		72.3	15-140	6.86	30	†
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	6.04	30	
Pyridine	0.798	0.34	mg/Kg wet	1.67		47.9	30-140	7.19	30	†
1,2,4-Trichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.9	40-140	8.20	30	
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130	5.55	30	
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130	3.85	30	
Surrogate: 2-Fluorophenol	5.24		mg/Kg wet	6.67		78.5	30-130			
Surrogate: Phenol-d6	5.29		mg/Kg wet	6.67		79.4	30-130			
Surrogate: Nitrobenzene-d5	2.50		mg/Kg wet	3.33		75.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.33		80.5	30-130			
Surrogate: 2,4,6-Tribromophenol	4.46		mg/Kg wet	6.67		66.9	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/Kg wet	3.33		89.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210085 - SW-846 3546

Blank (B210085-BLK1)

Prepared: 08/11/18 Analyzed: 08/14/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.134		mg/Kg wet	0.200		67.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.124		mg/Kg wet	0.200		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.126		mg/Kg wet	0.200		63.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.110		mg/Kg wet	0.200		55.2	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210085 - SW-846 3546										
LCS (B210085-BS1)										
					Prepared: 08/11/18 Analyzed: 08/14/18					
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140			
alpha-Chlordane [2C]	0.076	0.0050	mg/Kg wet	0.100		75.6	40-140			
gamma-Chlordane	0.079	0.0050	mg/Kg wet	0.100		79.2	40-140			
gamma-Chlordane [2C]	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		86.9	40-140			
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140			
Aldrin	0.084	0.0050	mg/Kg wet	0.100		83.8	40-140			
Aldrin [2C]	0.071	0.0050	mg/Kg wet	0.100		70.5	40-140			
alpha-BHC	0.069	0.0050	mg/Kg wet	0.100		69.4	40-140			
alpha-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		63.6	40-140			
beta-BHC	0.072	0.0050	mg/Kg wet	0.100		71.9	40-140			
beta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		62.8	40-140			
delta-BHC	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140			
delta-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.8	40-140			
gamma-BHC (Lindane)	0.076	0.0020	mg/Kg wet	0.100		75.6	40-140			
gamma-BHC (Lindane) [2C]	0.066	0.0020	mg/Kg wet	0.100		65.9	40-140			
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
4,4'-DDD [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		88.9	40-140			
4,4'-DDE [2C]	0.075	0.0040	mg/Kg wet	0.100		75.2	40-140			
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		90.5	40-140			
4,4'-DDT [2C]	0.073	0.0040	mg/Kg wet	0.100		73.4	40-140			
Dieldrin	0.086	0.0040	mg/Kg wet	0.100		85.5	40-140			
Dieldrin [2C]	0.070	0.0040	mg/Kg wet	0.100		70.5	40-140			
Endosulfan I	0.078	0.0050	mg/Kg wet	0.100		77.7	40-140			
Endosulfan I [2C]	0.071	0.0050	mg/Kg wet	0.100		70.8	40-140			
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.3	40-140			
Endosulfan II [2C]	0.075	0.0080	mg/Kg wet	0.100		75.0	40-140			
Endosulfan Sulfate	0.090	0.0080	mg/Kg wet	0.100		89.6	40-140			
Endosulfan Sulfate [2C]	0.077	0.0080	mg/Kg wet	0.100		76.9	40-140			
Endrin	0.083	0.0080	mg/Kg wet	0.100		82.9	40-140			
Endrin [2C]	0.073	0.0080	mg/Kg wet	0.100		73.3	40-140			
Endrin Aldehyde	0.082	0.0080	mg/Kg wet	0.100		82.0	40-140			
Endrin Aldehyde [2C]	0.078	0.0080	mg/Kg wet	0.100		78.4	40-140			
Endrin Ketone	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.7	40-140			
Heptachlor	0.080	0.0050	mg/Kg wet	0.100		79.7	40-140			
Heptachlor [2C]	0.070	0.0050	mg/Kg wet	0.100		70.4	40-140			
Heptachlor Epoxide	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Heptachlor Epoxide [2C]	0.073	0.0050	mg/Kg wet	0.100		73.1	40-140			
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		79.5	40-140			
Hexachlorobenzene [2C]	0.073	0.0060	mg/Kg wet	0.100		73.0	40-140			
Methoxychlor	0.088	0.050	mg/Kg wet	0.100		87.5	40-140			
Methoxychlor [2C]	0.091	0.050	mg/Kg wet	0.100		91.0	40-140			
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.146		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.130		mg/Kg wet	0.200		64.9	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210085 - SW-846 3546										
LCS Dup (B210085-BSD1)										
					Prepared: 08/11/18 Analyzed: 08/14/18					
alpha-Chlordane	0.076	0.0050	mg/Kg wet	0.100		76.5	40-140	7.36	30	
alpha-Chlordane [2C]	0.071	0.0050	mg/Kg wet	0.100		70.5	40-140	6.92	30	
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.100		73.8	40-140	7.13	30	
gamma-Chlordane [2C]	0.075	0.0050	mg/Kg wet	0.100		74.7	40-140	7.84	30	
Alachlor	0.083	0.020	mg/Kg wet	0.100		83.2	40-140	4.42	30	
Alachlor [2C]	0.075	0.020	mg/Kg wet	0.100		75.4	40-140	6.84	30	
Aldrin	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	6.78	30	
Aldrin [2C]	0.067	0.0050	mg/Kg wet	0.100		66.6	40-140	5.83	30	
alpha-BHC	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	4.51	30	
alpha-BHC [2C]	0.061	0.0050	mg/Kg wet	0.100		60.7	40-140	4.59	30	
beta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140	4.16	30	
beta-BHC [2C]	0.060	0.0050	mg/Kg wet	0.100		60.3	40-140	3.94	30	
delta-BHC	0.077	0.0050	mg/Kg wet	0.100		76.7	40-140	0.796	30	
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.7	40-140	3.00	30	
gamma-BHC (Lindane)	0.072	0.0020	mg/Kg wet	0.100		72.2	40-140	4.70	30	
gamma-BHC (Lindane) [2C]	0.063	0.0020	mg/Kg wet	0.100		63.0	40-140	4.48	30	
4,4'-DDD	0.083	0.0040	mg/Kg wet	0.100		82.6	40-140	8.26	30	
4,4'-DDD [2C]	0.071	0.0040	mg/Kg wet	0.100		71.2	40-140	7.52	30	
4,4'-DDE	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.01	30	
4,4'-DDE [2C]	0.070	0.0040	mg/Kg wet	0.100		69.8	40-140	7.48	30	
4,4'-DDT	0.083	0.0040	mg/Kg wet	0.100		83.3	40-140	8.21	30	
4,4'-DDT [2C]	0.068	0.0040	mg/Kg wet	0.100		68.1	40-140	7.57	30	
Dieldrin	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140	7.48	30	
Dieldrin [2C]	0.066	0.0040	mg/Kg wet	0.100		66.0	40-140	6.54	30	
Endosulfan I	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140	7.44	30	
Endosulfan I [2C]	0.066	0.0050	mg/Kg wet	0.100		66.1	40-140	6.94	30	
Endosulfan II	0.076	0.0080	mg/Kg wet	0.100		76.1	40-140	7.81	30	
Endosulfan II [2C]	0.070	0.0080	mg/Kg wet	0.100		69.8	40-140	7.17	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		82.9	40-140	7.74	30	
Endosulfan Sulfate [2C]	0.071	0.0080	mg/Kg wet	0.100		71.4	40-140	7.44	30	
Endrin	0.077	0.0080	mg/Kg wet	0.100		77.1	40-140	7.22	30	
Endrin [2C]	0.069	0.0080	mg/Kg wet	0.100		68.7	40-140	6.49	30	
Endrin Aldehyde	0.075	0.0080	mg/Kg wet	0.100		75.3	40-140	8.56	30	
Endrin Aldehyde [2C]	0.073	0.0080	mg/Kg wet	0.100		72.9	40-140	7.29	30	
Endrin Ketone	0.080	0.0080	mg/Kg wet	0.100		80.3	40-140	8.51	30	
Endrin Ketone [2C]	0.072	0.0080	mg/Kg wet	0.100		71.9	40-140	7.70	30	
Heptachlor	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	5.93	30	
Heptachlor [2C]	0.068	0.0050	mg/Kg wet	0.100		67.8	40-140	3.80	30	
Heptachlor Epoxide	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.17	30	
Heptachlor Epoxide [2C]	0.069	0.0050	mg/Kg wet	0.100		69.3	40-140	5.22	30	
Hexachlorobenzene	0.075	0.0060	mg/Kg wet	0.100		74.8	40-140	6.14	30	
Hexachlorobenzene [2C]	0.068	0.0060	mg/Kg wet	0.100		68.4	40-140	6.37	30	
Methoxychlor	0.080	0.050	mg/Kg wet	0.100		80.2	40-140	8.79	30	
Methoxychlor [2C]	0.084	0.050	mg/Kg wet	0.100		84.3	40-140	7.64	30	
Surrogate: Decachlorobiphenyl	0.145		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.119		mg/Kg wet	0.200		59.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209900 - SW-846 3546										
Blank (B209900-BLK1)					Prepared & Analyzed: 08/09/18					
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.225		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg wet	0.200		95.8	30-150			
LCS (B209900-BS1)					Prepared & Analyzed: 08/09/18					
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		96.7	40-140			
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Surrogate: Decachlorobiphenyl	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
LCS Dup (B209900-BSD1)					Prepared & Analyzed: 08/09/18					
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.1	40-140	1.18	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	2.60	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.0	40-140	1.41	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	1.52	30	
Surrogate: Decachlorobiphenyl	0.224		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.233		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209900 - SW-846 3546

Matrix Spike (B209900-MS1)

Source: 18H0260-03

Prepared: 08/09/18 Analyzed: 08/14/18

Aroclor-1016	0.15	0.087	mg/Kg dry	0.218	ND	70.5	40-140			
Aroclor-1016 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	70.7	40-140			
Aroclor-1260	0.13	0.087	mg/Kg dry	0.218	ND	61.7	40-140			
Aroclor-1260 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	69.2	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg dry	0.218		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg dry	0.218		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg dry	0.218		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg dry	0.218		75.1	30-150			

Matrix Spike Dup (B209900-MSD1)

Source: 18H0260-03

Prepared: 08/09/18 Analyzed: 08/14/18

Aroclor-1016	0.17	0.087	mg/Kg dry	0.218	ND	75.9	40-140	7.32	30	
Aroclor-1016 [2C]	0.16	0.087	mg/Kg dry	0.218	ND	73.0	40-140	3.22	30	
Aroclor-1260	0.13	0.087	mg/Kg dry	0.218	ND	60.5	40-140	1.94	30	
Aroclor-1260 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	69.8	40-140	0.823	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.218		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg dry	0.218		80.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg dry	0.218		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg dry	0.218		73.9	30-150			

QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
Blank (B209967-BLK1)										
Prepared: 08/10/18 Analyzed: 08/15/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							R-05
Dinoseb [2C]	ND	12	µg/kg wet							R-05
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	73.3		µg/kg wet	95.2		77.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	71.6		µg/kg wet	95.2		75.2	30-150			
LCS (B209967-BS1)										
Prepared: 08/10/18 Analyzed: 08/15/18										
2,4-D	114	25	µg/kg wet	125		91.5	40-140			
2,4-D [2C]	116	25	µg/kg wet	125		92.8	40-140			
2,4-DB	123	25	µg/kg wet	125		98.4	40-140			
2,4-DB [2C]	121	25	µg/kg wet	125		96.8	40-140			
2,4,5-TP (Silvex)	11.1	2.5	µg/kg wet	12.5		88.9	40-140			
2,4,5-TP (Silvex) [2C]	11.4	2.5	µg/kg wet	12.5		90.9	40-140			
2,4,5-T	11.7	2.5	µg/kg wet	12.5		93.5	40-140			
2,4,5-T [2C]	12.2	2.5	µg/kg wet	12.5		98.0	40-140			
Dalapon	213	62	µg/kg wet	312		68.0	40-140			
Dalapon [2C]	209	62	µg/kg wet	312		66.9	40-140			
Dicamba	11.8	2.5	µg/kg wet	12.5		94.8	40-140			
Dicamba [2C]	11.6	2.5	µg/kg wet	12.5		93.1	40-140			
Dichloroprop	114	25	µg/kg wet	125		91.2	40-140			
Dichloroprop [2C]	115	25	µg/kg wet	125		92.1	40-140			
Dinoseb	14.3	12	µg/kg wet	62.5		22.8	0-42.4			R-05
Dinoseb [2C]	14.4	12	µg/kg wet	62.5		23.1	0-41.1			R-05
MCPA	12200	2500	µg/kg wet	12500		97.8	40-140			
MCPA [2C]	10100	2500	µg/kg wet	12500		80.5	40-140			
MCPP	14800	2500	µg/kg wet	12500		119	40-140			
MCPP [2C]	10700	2500	µg/kg wet	12500		85.3	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	92.2		µg/kg wet	100		92.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	87.6		µg/kg wet	100		87.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
LCS Dup (B209967-BSD1)										
					Prepared: 08/10/18 Analyzed: 08/15/18					
2,4-D	109	25	µg/kg wet	125		86.9	40-140	5.16	30	
2,4-D [2C]	110	25	µg/kg wet	125		87.6	40-140	5.72	30	
2,4-DB	113	25	µg/kg wet	125		90.5	40-140	8.30	30	
2,4-DB [2C]	113	25	µg/kg wet	125		90.6	40-140	6.68	30	
2,4,5-TP (Silvex)	10.8	2.5	µg/kg wet	12.5		86.4	40-140	2.81	30	
2,4,5-TP (Silvex) [2C]	11.2	2.5	µg/kg wet	12.5		89.5	40-140	1.53	30	
2,4,5-T	10.4	2.5	µg/kg wet	12.5		83.1	40-140	11.7	30	
2,4,5-T [2C]	10.4	2.5	µg/kg wet	12.5		83.1	40-140	16.4	30	
Dalapon	188	62	µg/kg wet	312		60.2	40-140	12.2	30	
Dalapon [2C]	184	62	µg/kg wet	312		59.0	40-140	12.5	30	
Dicamba	10.8	2.5	µg/kg wet	12.5		86.1	40-140	9.65	30	
Dicamba [2C]	11.1	2.5	µg/kg wet	12.5		88.5	40-140	5.01	30	
Dichloroprop	109	25	µg/kg wet	125		87.5	40-140	4.15	30	
Dichloroprop [2C]	112	25	µg/kg wet	125		89.3	40-140	3.08	30	
Dinoseb	10.3	12	µg/kg wet	62.5		16.5	0-42.4	32.3 *	30	R-05
Dinoseb [2C]	10.3	12	µg/kg wet	62.5		16.5	0-41.1	33.3 *	30	R-05
MCPA	11000	2500	µg/kg wet	12500		87.6	40-140	11.0	30	
MCPA [2C]	9500	2500	µg/kg wet	12500		76.0	40-140	5.77	30	
MCPP	14400	2500	µg/kg wet	12500		115	40-140	3.26	30	
MCPP [2C]	10100	2500	µg/kg wet	12500		80.6	40-140	5.75	30	
Surrogate: 2,4-Dichlorophenylacetic acid	82.6		µg/kg wet	100		82.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	83.3		µg/kg wet	100		83.3	30-150			
Matrix Spike (B209967-MS1)										
			Source: 18H0260-02		Prepared: 08/10/18 Analyzed: 08/16/18					
2,4-D	121	26	µg/kg dry	130	ND	92.8	30-150			
2,4-D [2C]	119	26	µg/kg dry	130	ND	91.3	30-150			
2,4-DB	118	26	µg/kg dry	130	ND	90.9	30-150			
2,4-DB [2C]	125	26	µg/kg dry	130	ND	95.9	30-150			
2,4,5-TP (Silvex)	11.7	2.6	µg/kg dry	13.0	ND	90.1	30-150			
2,4,5-TP (Silvex) [2C]	12.2	2.6	µg/kg dry	13.0	ND	93.8	30-150			
2,4,5-T	10.8	2.6	µg/kg dry	13.0	ND	82.8	30-150			
2,4,5-T [2C]	11.4	2.6	µg/kg dry	13.0	ND	87.7	30-150			
Dalapon	212	65	µg/kg dry	326	ND	65.0	30-150			
Dalapon [2C]	215	65	µg/kg dry	326	ND	66.1	30-150			
Dicamba	10.1	2.6	µg/kg dry	13.0	ND	77.5	30-150			
Dicamba [2C]	12.1	2.6	µg/kg dry	13.0	ND	93.2	30-150			
Dichloroprop	117	26	µg/kg dry	130	ND	89.8	30-150			
Dichloroprop [2C]	114	26	µg/kg dry	130	ND	87.5	30-150			
Dinoseb	25.0	13	µg/kg dry	65.1	ND	38.3	10-150			R-05
Dinoseb [2C]	24.7	13	µg/kg dry	65.1	ND	37.8	10-150			R-05
MCPA	12400	2600	µg/kg dry	13000	ND	95.5	30-150			
MCPA [2C]	9890	2600	µg/kg dry	13000	ND	75.9	30-150			
MCPP	16700	2600	µg/kg dry	13000	ND	128	30-150			
MCPP [2C]	10900	2600	µg/kg dry	13000	ND	83.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	87.9		µg/kg dry	104		84.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	91.6		µg/kg dry	104		87.8	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
Matrix Spike Dup (B209967-MSD1)		Source: 18H0260-02		Prepared: 08/10/18 Analyzed: 08/16/18						
2,4-D	116	26	µg/kg dry	130	ND	89.0	30-150	4.15	30	
2,4-D [2C]	121	26	µg/kg dry	130	ND	92.7	30-150	1.52	30	
2,4-DB	125	26	µg/kg dry	130	ND	95.8	30-150	5.23	30	
2,4-DB [2C]	126	26	µg/kg dry	130	ND	97.0	30-150	1.13	30	
2,4,5-TP (Silvex)	11.6	2.6	µg/kg dry	13.0	ND	89.2	30-150	0.988	30	
2,4,5-TP (Silvex) [2C]	12.6	2.6	µg/kg dry	13.0	ND	96.6	30-150	2.97	30	
2,4,5-T	11.3	2.6	µg/kg dry	13.0	ND	86.6	30-150	4.40	30	
2,4,5-T [2C]	11.6	2.6	µg/kg dry	13.0	ND	89.0	30-150	1.48	30	
Dalapon	200	65	µg/kg dry	326	ND	61.4	30-150	5.57	30	
Dalapon [2C]	205	65	µg/kg dry	326	ND	62.9	30-150	4.81	30	
Dicamba	10.4	2.6	µg/kg dry	13.0	ND	80.1	30-150	3.28	30	
Dicamba [2C]	12.1	2.6	µg/kg dry	13.0	ND	93.2	30-150	0.0236	30	
Dichloroprop	119	26	µg/kg dry	130	ND	91.1	30-150	1.40	30	
Dichloroprop [2C]	116	26	µg/kg dry	130	ND	88.8	30-150	1.43	30	
Dinoseb	24.9	13	µg/kg dry	65.1	ND	38.2	10-150	0.169	30	R-05
Dinoseb [2C]	25.7	13	µg/kg dry	65.1	ND	39.4	10-150	4.10	30	R-05
MCPA	11300	2600	µg/kg dry	13000	ND	87.1	30-150	9.20	30	
MCPA [2C]	10000	2600	µg/kg dry	13000	ND	76.8	30-150	1.14	30	
MCPP	13300	2600	µg/kg dry	13000	ND	102	30-150	22.5	30	
MCPP [2C]	10700	2600	µg/kg dry	13000	ND	82.5	30-150	1.28	30	
Surrogate: 2,4-Dichlorophenylacetic acid	90.2		µg/kg dry	104		86.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	93.9		µg/kg dry	104		90.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209877 - SW-846 3546										
Blank (B209877-BLK1)										
					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.5	40-140			
LCS (B209877-BS1)										
					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	26.6	8.3	mg/Kg wet	33.3		79.7	40-140			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.5	40-140			
LCS Dup (B209877-BSD1)										
					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	27.5	8.3	mg/Kg wet	33.3		82.6	40-140	3.59	30	
Surrogate: 2-Fluorobiphenyl	2.71		mg/Kg wet	3.33		81.2	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210161 - SW-846 3050B

Blank (B210161-BLK1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	1.6	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.16	mg/Kg wet							
Chromium	ND	0.32	mg/Kg wet							
Lead	ND	0.48	mg/Kg wet							
Nickel	ND	0.32	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							
Zinc	ND	0.64	mg/Kg wet							

LCS (B210161-BS1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	63.7	5.0	mg/Kg wet	75.5		84.4	3.8-196			
Arsenic	165	5.0	mg/Kg wet	161		102	83.2-116.8			
Barium	292	5.0	mg/Kg wet	260		112	82.7-117.3			
Beryllium	102	0.50	mg/Kg wet	97.6		105	83.4-116.8			
Cadmium	215	0.50	mg/Kg wet	211		102	83.4-116.6			
Chromium	143	1.0	mg/Kg wet	136		105	82.4-117.6			
Lead	115	1.5	mg/Kg wet	111		104	83-117.1			
Nickel	92.2	1.0	mg/Kg wet	91.9		100	82.9-117.5			
Selenium	194	10	mg/Kg wet	191		102	79.6-120.9			
Silver	45.0	1.0	mg/Kg wet	43.3		104	79.9-119.9			
Thallium	164	5.0	mg/Kg wet	156		105	81.4-119.2			
Vanadium	55.2	2.0	mg/Kg wet	56.7		97.4	79-121.2			
Zinc	213	2.0	mg/Kg wet	199		107	81.4-119.1			

LCS Dup (B210161-BSD1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	63.3	4.9	mg/Kg wet	75.5		83.9	3.8-196	0.651	30	
Arsenic	162	4.9	mg/Kg wet	161		101	83.2-116.8	1.84	30	
Barium	270	4.9	mg/Kg wet	260		104	82.7-117.3	7.86	30	
Beryllium	99.8	0.49	mg/Kg wet	97.6		102	83.4-116.8	2.34	30	
Cadmium	212	0.49	mg/Kg wet	211		101	83.4-116.6	1.21	30	
Chromium	140	0.99	mg/Kg wet	136		103	82.4-117.6	2.09	30	
Lead	109	1.5	mg/Kg wet	111		98.4	83-117.1	5.49	30	
Nickel	91.4	0.99	mg/Kg wet	91.9		99.5	82.9-117.5	0.876	30	
Selenium	193	9.9	mg/Kg wet	191		101	79.6-120.9	0.598	30	
Silver	42.9	0.99	mg/Kg wet	43.3		99.1	79.9-119.9	4.71	30	
Thallium	168	4.9	mg/Kg wet	156		108	81.4-119.2	2.30	30	
Vanadium	54.4	2.0	mg/Kg wet	56.7		96.0	79-121.2	1.45	30	
Zinc	200	2.0	mg/Kg wet	199		101	81.4-119.1	6.30	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210161 - SW-846 3050B										
MRL Check (B210161-MRL1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Lead	0.497	0.51	mg/Kg wet	0.508		98.0	80-120			
Batch B210164 - SW-846 7471										
Blank (B210164-BLK1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B210164-BS1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	10.0	1.9	mg/Kg wet	9.36		107	73.7-126.3			
LCS Dup (B210164-BSD1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	9.64	1.9	mg/Kg wet	9.36		103	73.7-126.3	4.07	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209662 - SW-846 9045C										
LCS (B209662-BS1)				Prepared & Analyzed: 08/06/18						
pH	6.05		pH Units	6.00		101	90-110			
Duplicate (B209662-DUP1)				Source: 18H0260-05		Prepared & Analyzed: 08/06/18				
pH	7.4		pH Units		7.2			3.15	5	
Batch B210003 - SM21-22 2510B Modified										
Blank (B210003-BLK1)				Prepared & Analyzed: 08/10/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B210003-BS1)				Prepared & Analyzed: 08/10/18						
Specific conductance	190		µmhos/cm	192		101	90-110			
Duplicate (B210003-DUP1)				Source: 18H0260-01		Prepared & Analyzed: 08/10/18				
Specific conductance	29	2.0	µmhos/cm		21			31.2 *	21	R-02
Batch B210053 - SW-846 9014										
Blank (B210053-BLK1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B210053-BS1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	83.6-111			
Batch B210054 - % Solids										
Duplicate (B210054-DUP4)				Source: 18H0260-01		Prepared: 08/10/18 Analyzed: 08/12/18				
% Solids	96.2		% Wt		96.1			0.0969	20	
Batch B210158 - SW-846 9030A										
Blank (B210158-BLK1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B210158-BS1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S026258-PEM1 **Analyzed:** 08/14/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.59
Endrin [1] 2.35

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.48
Endrin [2] 3.32

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM2 **Analyzed:** 08/15/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.68
Endrin [1] 1.93

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.62
Endrin [2] 2.90

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM3 **Analyzed:** 08/15/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.09
Endrin [1] 1.67

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BREAKDOWN REPORT

Lab Sample ID: S026258-PEM3 Analyzed: 08/15/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.37
Endrin [2]	2.45

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM4 Analyzed: 08/15/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.16
Endrin [1]	1.78

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.52
Endrin [2]	2.31

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B209900-BS1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B209900-BSD1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.21	4.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B209900-MS1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B209900-MSD1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.16	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B209967-BS1 Date(s) Analyzed: 08/15/2018 08/15/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.686	0.000	0.000	11.7	
	2	15.689	0.000	0.000	12.2	1.7
2,4,5-TP (Silvex)	1	15.069	0.000	0.000	11.1	
	2	14.843	0.000	0.000	11.4	3.6
2,4-D	1	13.248	0.000	0.000	114	
	2	13.122	0.000	0.000	116	5.3
2,4-DB	1	16.765	0.000	0.000	123	
	2	16.717	0.000	0.000	121	0.8
Dalapon	1	4.422	0.000	0.000	213	
	2	4.029	0.000	0.000	209	0.5
Dicamba	1	11.173	0.000	0.000	11.8	
	2	10.945	0.000	0.000	11.6	3.4
Dichloroprop	1	12.750	0.000	0.000	114	
	2	12.449	0.000	0.000	115	4.4
Dinoseb	1	17.507	0.000	0.000	14.3	
	2	16.992	0.000	0.000	14.4	2.8
MCPA	1	11.979	0.000	0.000	12200	
	2	11.771	0.000	0.000	10100	17.2
MCPD	1	11.655	0.000	0.000	14800	
	2	11.281	0.000	0.000	10700	33.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8151A

Lab Sample ID: B209967-BSD1 Date(s) Analyzed: 08/15/2018 08/15/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.685	0.000	0.000	10.4	
	2	15.688	0.000	0.000	10.4	3.9
2,4,5-TP (Silvex)	1	15.070	0.000	0.000	10.8	
	2	14.842	0.000	0.000	11.2	1.8
2,4-D	1	13.248	0.000	0.000	109	
	2	13.121	0.000	0.000	110	0.0
2,4-DB	1	16.765	0.000	0.000	113	
	2	16.715	0.000	0.000	113	2.7
Dalapon	1	4.424	0.000	0.000	188	
	2	4.031	0.000	0.000	184	3.2
Dicamba	1	11.171	0.000	0.000	10.8	
	2	10.945	0.000	0.000	11.1	0.9
Dichloroprop	1	12.750	0.000	0.000	109	
	2	12.448	0.000	0.000	112	1.8
Dinoseb	1	17.504	0.000	0.000	10.3	
	2	16.991	0.000	0.000	10.3	3.0
MCPA	1	11.978	0.000	0.000	11000	
	2	11.769	0.000	0.000	9500	14.6
MCPD	1	11.656	0.000	0.000	14400	
	2	11.280	0.000	0.000	10100	32.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8151A

Lab Sample ID: B209967-MS1 Date(s) Analyzed: 08/16/2018 08/16/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.678	0.000	0.000	10.8	
	2	15.684	0.000	0.000	11.4	3.6
2,4,5-TP (Silvex)	1	15.065	0.000	0.000	11.7	
	2	14.841	0.000	0.000	12.2	1.7
2,4-D	1	13.242	0.000	0.000	121	
	2	13.120	0.000	0.000	119	0.8
2,4-DB	1	16.759	0.000	0.000	118	
	2	16.713	0.000	0.000	125	4.1
Dalapon	1	4.420	0.000	0.000	212	
	2	4.029	0.000	0.000	215	2.4
Dicamba	1	11.168	0.000	0.000	10.1	
	2	10.943	0.000	0.000	12.1	19.0
Dichloroprop	1	12.745	0.000	0.000	117	
	2	12.447	0.000	0.000	114	5.1
Dinoseb	1	17.500	0.000	0.000	25.0	
	2	16.989	0.000	0.000	24.7	1.2
MCPA	1	11.975	0.000	0.000	12400	
	2	11.769	0.000	0.000	9890	19.3
MCPD	1	11.651	0.000	0.000	16700	
	2	11.280	0.000	0.000	10900	43.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B209967-MSD1 Date(s) Analyzed: 08/16/2018 08/16/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.676	0.000	0.000	11.3	
	2	15.684	0.000	0.000	11.6	5.3
2,4,5-TP (Silvex)	1	15.063	0.000	0.000	11.6	
	2	14.840	0.000	0.000	12.6	4.9
2,4-D	1	13.241	0.000	0.000	116	
	2	13.120	0.000	0.000	121	0.8
2,4-DB	1	16.759	0.000	0.000	125	
	2	16.715	0.000	0.000	126	3.1
Dalapon	1	4.422	0.000	0.000	200	
	2	4.030	0.000	0.000	205	2.5
Dicamba	1	11.168	0.000	0.000	10.4	
	2	10.943	0.000	0.000	12.1	19.0
Dichloroprop	1	12.744	0.000	0.000	119	
	2	12.447	0.000	0.000	116	3.4
Dinoseb	1	17.498	0.000	0.000	24.9	
	2	16.989	0.000	0.000	25.7	2.8
MCPA	1	11.974	0.000	0.000	11300	
	2	11.770	0.000	0.000	10000	9.5
MCP P	1	11.651	0.000	0.000	13300	
	2	11.279	0.000	0.000	10700	19.4

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8081B

 Lab Sample ID: B210085-BS1 Date(s) Analyzed: 08/14/2018 08/14/2018

 Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.586	7.557	7.617	0.090	
	2	7.528	7.499	7.559	0.077	15.6
4,4'-DDE	1	7.129	7.100	7.160	0.089	
	2	7.085	7.056	7.116	0.075	17.1
4,4'-DDT	1	7.804	7.775	7.835	0.090	
	2	7.773	7.744	7.804	0.073	22.0
Alachlor	1	6.539	6.510	6.570	0.087	
	2	6.236	6.206	6.266	0.081	7.1
Aldrin	1	6.448	6.418	6.478	0.084	
	2	6.307	6.277	6.337	0.071	16.8
alpha-BHC	1	5.690	5.661	5.721	0.069	
	2	5.566	5.536	5.596	0.064	7.5
alpha-Chlordane	1	7.079	7.049	7.109	0.082	
	2	6.958	6.929	6.989	0.076	7.6
beta-BHC	1	5.959	5.930	5.990	0.072	
	2	5.846	5.817	5.877	0.063	13.3
delta-BHC	1	6.084	6.055	6.115	0.077	
	2	6.042	6.013	6.073	0.070	9.5
Dieldrin	1	7.366	7.336	7.396	0.086	
	2	7.206	7.177	7.237	0.070	20.5
Endosulfan I	1	7.185	7.156	7.216	0.078	
	2	7.001	6.972	7.032	0.071	9.4
Endosulfan II	1	7.719	7.689	7.749	0.082	
	2	7.602	7.573	7.633	0.075	8.9
Endosulfan Sulfate	1	8.338	8.308	8.368	0.090	
	2	8.077	8.048	8.108	0.077	15.6
Endrin	1	7.545	7.517	7.577	0.083	
	2	7.438	7.409	7.469	0.073	12.8
Endrin Aldehyde	1	8.039	8.009	8.069	0.082	
	2	7.869	7.839	7.899	0.078	5.0
Endrin Ketone	1	8.517	8.487	8.547	0.087	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210085-BS1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.432	8.402	8.462	0.078	12.0
gamma-BHC (Lindane)	1	5.904	5.875	5.935	0.076	
	2	5.794	5.764	5.824	0.066	14.1
gamma-Chlordane	1	6.979	6.950	7.010	0.079	
	2	6.849	6.821	6.881	0.081	2.5
Heptachlor	1	6.232	6.203	6.263	0.080	
	2	6.085	6.055	6.115	0.070	13.3
Heptachlor Epoxide	1	6.888	6.859	6.919	0.081	
	2	6.713	6.684	6.744	0.073	10.4
Hexachlorobenzene	1	5.577	5.548	5.608	0.080	
	2	5.475	5.445	5.505	0.073	9.2
Methoxychlor	1	8.158	8.128	8.188	0.088	
	2	8.280	8.252	8.312	0.091	3.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210085-BSD1 Date(s) Analyzed: 08/14/2018 08/14/2018
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.586	7.557	7.617	0.083	
	2	7.528	7.499	7.559	0.071	15.6
4,4'-DDE	1	7.128	7.100	7.160	0.082	
	2	7.085	7.056	7.116	0.070	15.8
4,4'-DDT	1	7.805	7.775	7.835	0.083	
	2	7.773	7.744	7.804	0.068	19.9
Alachlor	1	6.540	6.510	6.570	0.083	
	2	6.236	6.206	6.266	0.075	10.1
Aldrin	1	6.448	6.418	6.478	0.078	
	2	6.307	6.277	6.337	0.067	15.2
alpha-BHC	1	5.690	5.661	5.721	0.066	
	2	5.566	5.536	5.596	0.061	7.9
alpha-Chlordane	1	7.078	7.049	7.109	0.076	
	2	6.959	6.929	6.989	0.071	8.1
beta-BHC	1	5.960	5.930	5.990	0.069	
	2	5.846	5.817	5.877	0.060	14.0
delta-BHC	1	6.084	6.055	6.115	0.077	
	2	6.042	6.013	6.073	0.068	12.4
Dieldrin	1	7.366	7.336	7.396	0.079	
	2	7.206	7.177	7.237	0.066	17.9
Endosulfan I	1	7.185	7.156	7.216	0.072	
	2	7.001	6.972	7.032	0.066	8.7
Endosulfan II	1	7.718	7.689	7.749	0.076	
	2	7.602	7.573	7.633	0.070	8.2
Endosulfan Sulfate	1	8.338	8.308	8.368	0.083	
	2	8.077	8.048	8.108	0.071	15.6
Endrin	1	7.546	7.517	7.577	0.077	
	2	7.438	7.409	7.469	0.069	11.0
Endrin Aldehyde	1	8.038	8.009	8.069	0.075	
	2	7.869	7.839	7.899	0.073	2.7
Endrin Ketone	1	8.517	8.487	8.547	0.080	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8081B

Lab Sample ID: B210085-BSD1 Date(s) Analyzed: 08/14/2018 08/14/2018
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.431	8.402	8.462	0.072	10.5
gamma-BHC (Lindane)	1	5.904	5.875	5.935	0.072	
	2	5.794	5.764	5.824	0.063	13.3
gamma-Chlordane	1	6.979	6.950	7.010	0.074	
	2	6.850	6.821	6.881	0.075	1.3
Heptachlor	1	6.233	6.203	6.263	0.075	
	2	6.085	6.055	6.115	0.068	9.8
Heptachlor Epoxide	1	6.889	6.859	6.919	0.075	
	2	6.714	6.684	6.744	0.069	8.3
Hexachlorobenzene	1	5.577	5.548	5.608	0.075	
	2	5.475	5.445	5.505	0.068	9.8
Methoxychlor	1	8.158	8.128	8.188	0.080	
	2	8.280	8.252	8.312	0.084	4.9

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Water	
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18A0260
 URL: www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Address: 101 WINDMILL STREET, WATERTOWN, MA
Phone: 617-601-1841
Project Location: Hudson, MA
Project Number: 12910106
Project Manager: Paul McKinley
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: PEC

7-Day Due Date: 10-Day
1-Day: **3-Day:**
2-Day: **4-Day:**
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: rossell@contestlabs.com
Fax To #: 508-688-1614

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composites	Grab	Matrix Code	Pres. Code
1	MP13	8/11/18	12:30	X	X	S	U
2	MP18	8/12/18	10:00	X	X	S	U
3	MP14	8/12/18	12:00	X	X	S	U
4	MP21	8/12/18	10:00	X	X	S	U
5	MP25	8/12/18	11:00	X	X	S	U

ANALYSIS REQUESTED	Reactivity, pH	Ignitability, PH	pest/herb	VOCs, nCPL, Metals	Reactive Sulfide	Reactive Cyanide
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X

Comments: 20X rule for TCLP

Relinquished by (signature): [Signature]
Date/Time: 8/6/18 1700

Received by (signature): [Signature]
Date/Time: 8/6/18 1400

Relinquished by (signature): [Signature]
Date/Time: 8/6/18 1614

Received by (signature): [Signature]
Date/Time: 8-6-18

Relinquished by (signature): [Signature]
Date/Time: []

Received by (signature): [Signature]
Date/Time: []

Special Requirements:
 MA MCP Required
 MCP Certification Exam Required
 CT RCP Required
 MCP Certification Exam Required
 MA State Day Requirement

Project Entry:
 Government Municipality MWRA WRTA Other
 Federal City School MBTA Chromatogram
 City Brownfield AIHA-LAP, LLC

con-test ANALYTICAL LABORATORY
 www.contestlabs.com
 P.E. FROZ 866-96-1614

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By ESD Date 8-6-18 Time 16:14

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 4.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	5	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	16	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: 8-6-18 @ 16:14
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

August 16, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H0260

Enclosed are results of analyses for samples received by the laboratory on August 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" and "M".

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP13	18H0260-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP18	18H0260-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

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Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP14	18H0260-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP21	18H0260-04	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0260

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP25	18H0260-05	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 08/13/18

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SM21-22 2510B Modified**Qualifications:**

R-02
Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:**Specific conductance**

18H0260-01[MP13], B210003-DUP1

SW-846 8081B**Qualifications:**

DL-03
Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0260-01[MP13], 18H0260-04[MP21], 18H0260-05[MP25]

SW-846 8082A**Qualifications:**

O-32
A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25]

SW-846 8100 Modified**Qualifications:**

S-01
The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

18H0260-01[MP13], 18H0260-04[MP21]

SW-846 8151A**Qualifications:**

R-05
Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Dinoseb**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209967-BLK1, B209967-BS1, B209967-BSD1, B209967-MS1, B209967-MSD1

Dinoseb [2C]

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209967-BLK1, B209967-BS1, B209967-BSD1, B209967-MS1, B209967-MSD1

SW-846 8260C**Qualifications:**

L-07A
Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

B209755-BSD1

2-Hexanone (MBK)

B209755-BSD1

Acetone

B209755-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

2-Hexanone (MBK)

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

Acetone

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], B209755-BLK1, B209755-BS1, B209755-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1, S025986-CCV1, S026047-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DB**

B209859-BS1, B209859-BSD1, S026047-CCV1

Bromochloromethane

B209859-BS1, B209859-BSD1, S026047-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209755-BLK1, B209755-BS1, B209755-BSD1, B209859-BLK1, B209859-BS1, B209859-BSD1, S025986-CCV1, S026047-CCV1

SW-846 8270D

Qualifications:**RL-08**

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

18H0260-04[MP21]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14], 18H0260-04[MP21], 18H0260-05[MP25], B209874-BLK1, B209874-BS1, B209874-BSD1

SW-846 9045C

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18H0260-01[MP13], 18H0260-02[MP18], 18H0260-03[MP14]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.093	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Benzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromochloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromodichloromethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromoform	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Bromomethane	ND	0.0093	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Butanone (MEK)	ND	0.037	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
n-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
sec-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Butylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Carbon Disulfide	ND	0.0056	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Carbon Tetrachloride	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chlorodibromomethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloroethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloroform	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Chloromethane	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
4-Chlorotoluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dibromoethane (EDB)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Dibromomethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,4-Dichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloroethylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
cis-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
trans-1,2-Dichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3-Dichloropropane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2,2-Dichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1-Dichloropropene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
cis-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
trans-1,3-Dichloropropene	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Diethyl Ether	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Diisopropyl Ether (DIPE)	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,4-Dioxane	ND	0.093	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Ethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
2-Hexanone (MBK)	ND	0.019	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Isopropylbenzene (Cumene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Methylene Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Naphthalene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
n-Propylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Styrene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1,2-Tetrachloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Tetrachloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Tetrahydrofuran	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Toluene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,3-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,4-Trichlorobenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,1-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,1,2-Trichloroethane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Trichloroethylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,3-Trichloropropane	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,2,4-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
1,3,5-Trimethylbenzene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
Vinyl Chloride	ND	0.0093	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
m+p Xylene	ND	0.0037	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF
o-Xylene	ND	0.0019	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 14:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	8/7/18 14:59
Toluene-d8	96.3	70-130	8/7/18 14:59
4-Bromofluorobenzene	96.9	70-130	8/7/18 14:59

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Acenaphthylene	0.47	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Anthracene	0.20	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(a)anthracene	1.2	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(a)pyrene	1.6	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(b)fluoranthene	1.8	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(g,h,i)perylene	2.0	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Benzo(k)fluoranthene	0.71	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Chrysene	1.3	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dibenz(a,h)anthracene	0.42	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Fluoranthene	1.8	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Phenanthrene	0.55	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pyrene	2.1	0.17	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:13	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		64.6	30-130					8/10/18 19:13	
Phenol-d6		65.0	30-130					8/10/18 19:13	
Nitrobenzene-d5		62.2	30-130					8/10/18 19:13	
2-Fluorobiphenyl		71.4	30-130					8/10/18 19:13	
2,4,6-Tribromophenol		60.9	30-130					8/10/18 19:13	
p-Terphenyl-d14		85.6	30-130					8/10/18 19:13	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Aldrin [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
alpha-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
beta-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
delta-BHC [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
gamma-BHC (Lindane) [2]	ND	0.021	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Chlordane [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDD [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDE [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
4,4'-DDT [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Dieldrin [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan I [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan II [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endosulfan sulfate [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin aldehyde [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Endrin ketone [2]	ND	0.083	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Heptachlor [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Heptachlor epoxide [2]	ND	0.052	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Hexachlorobenzene [2]	ND	0.062	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Methoxychlor [2]	ND	0.52	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Toxaphene [2]	ND	1.0	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 1:21	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.0	30-150					8/15/18 1:21	
Decachlorobiphenyl [2]		99.2	30-150					8/15/18 1:21	
Tetrachloro-m-xylene [1]		67.4	30-150					8/15/18 1:21	
Tetrachloro-m-xylene [2]		70.8	30-150					8/15/18 1:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 17:47	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.9	30-150					8/14/18 17:47	
Decachlorobiphenyl [2]		86.2	30-150					8/14/18 17:47	
Tetrachloro-m-xylene [1]		78.2	30-150					8/14/18 17:47	
Tetrachloro-m-xylene [2]		80.4	30-150					8/14/18 17:47	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 12:30

Field Sample #: MP13

Sample ID: 18H0260-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 1:14	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
MCPP [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:14	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	82.1	30-150						8/16/18 1:14	
2,4-Dichlorophenylacetic acid [2]	90.3	30-150						8/16/18 1:14	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	290	170	mg/Kg dry	20		SW-846 8100 Modified	8/8/18	8/11/18 1:50	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		*	40-140		S-01			8/11/18 1:50	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 12:30

Field Sample #: MP13

Sample ID: 18H0260-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Arsenic	8.6	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Barium	28	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Cadmium	0.31	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Chromium	15	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Lead	8.0	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:48	EJB
Nickel	12	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Vanadium	15	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW
Zinc	27	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:17	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP13

Sampled: 8/1/2018 12:30

Sample ID: 18H0260-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.2°C	7.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	21	2.0	µmhos/cm	1	R-02	SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	96.1		% Wt	1		SM 2540G	8/10/18	8/12/18 10:40	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.055	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Bromomethane	ND	0.0055	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chlorodibromomethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloroethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Chloromethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dibromoethane (EDB)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3-Dichloropropane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
cis-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
trans-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Diethyl Ether	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Diisopropyl Ether (DIPE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,4-Dioxane	ND	0.055	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Methylene Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Naphthalene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Tetrahydrofuran	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
Vinyl Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:26	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.7	70-130	8/7/18 15:26
Toluene-d8	95.3	70-130	8/7/18 15:26
4-Bromofluorobenzene	92.6	70-130	8/7/18 15:26

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:35	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		67.3	30-130					8/10/18 19:35	
Phenol-d6		68.5	30-130					8/10/18 19:35	
Nitrobenzene-d5		63.5	30-130					8/10/18 19:35	
2-Fluorobiphenyl		72.7	30-130					8/10/18 19:35	
2,4,6-Tribromophenol		63.4	30-130					8/10/18 19:35	
p-Terphenyl-d14		95.2	30-130					8/10/18 19:35	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Aldrin [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
alpha-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
beta-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
delta-BHC [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
gamma-BHC (Lindane) [2]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Chlordane [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDD [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDE [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
4,4'-DDT [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Dieldrin [2]	ND	0.0042	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan I [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan II [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endosulfan sulfate [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin aldehyde [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Endrin ketone [2]	ND	0.0083	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Heptachlor [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Heptachlor epoxide [2]	ND	0.0052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Hexachlorobenzene [2]	ND	0.0063	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Methoxychlor [2]	ND	0.052	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Toxaphene [2]	ND	0.10	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 1:48	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.9	30-150					8/15/18 1:48	
Decachlorobiphenyl [2]		72.6	30-150					8/15/18 1:48	
Tetrachloro-m-xylene [1]		67.6	30-150					8/15/18 1:48	
Tetrachloro-m-xylene [2]		60.2	30-150					8/15/18 1:48	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:04	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.0	30-150					8/14/18 18:04	
Decachlorobiphenyl [2]		85.8	30-150					8/14/18 18:04	
Tetrachloro-m-xylene [1]		82.4	30-150					8/14/18 18:04	
Tetrachloro-m-xylene [2]		84.8	30-150					8/14/18 18:04	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 1:53	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 1:53	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	77.2	30-150						8/16/18 1:53	
2,4-Dichlorophenylacetic acid [2]	82.6	30-150						8/16/18 1:53	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	8.6	mg/Kg dry	1		SW-846 8100 Modified	8/8/18	8/10/18 20:46	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	90.1		40-140					8/10/18 20:46	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/1/2018 16:00

Field Sample #: MP18

Sample ID: 18H0260-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Arsenic	4.9	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Barium	24	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Cadmium	0.19	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Lead	5.4	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:49	EJB
Nickel	9.1	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Vanadium	13	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW
Zinc	19	0.69	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:22	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP18

Sampled: 8/1/2018 16:00

Sample ID: 18H0260-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.4°C	5.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.9	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	95.9		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chlorodibromomethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloroethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
trans-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Diethyl Ether	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Diisopropyl Ether (DIPE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,4-Dioxane	ND	0.067	mg/Kg dry	1	V-16	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1	R-05	SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Methylene Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/7/18	8/7/18 15:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	95.3	70-130	
4-Bromofluorobenzene	93.0	70-130	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 19:57	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.4	30-130					8/10/18 19:57	
Phenol-d6		58.6	30-130					8/10/18 19:57	
Nitrobenzene-d5		56.3	30-130					8/10/18 19:57	
2-Fluorobiphenyl		60.4	30-130					8/10/18 19:57	
2,4,6-Tribromophenol		49.2	30-130					8/10/18 19:57	
p-Terphenyl-d14		78.8	30-130					8/10/18 19:57	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Aldrin [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
alpha-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
beta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
delta-BHC [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
gamma-BHC (Lindane) [2]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Chlordane [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
4,4'-DDT [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Dieldrin [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan I [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan II [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endosulfan sulfate [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin aldehyde [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Endrin ketone [2]	ND	0.0087	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Heptachlor [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Heptachlor epoxide [2]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Hexachlorobenzene [2]	ND	0.0065	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Methoxychlor [2]	ND	0.054	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Toxaphene [2]	ND	0.11	mg/Kg dry	1		SW-846 8081B	8/11/18	8/15/18 2:14	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.5	30-150					8/15/18 2:14	
Decachlorobiphenyl [2]		69.1	30-150					8/15/18 2:14	
Tetrachloro-m-xylene [1]		59.6	30-150					8/15/18 2:14	
Tetrachloro-m-xylene [2]		52.5	30-150					8/15/18 2:14	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					8/14/18 18:21	
Decachlorobiphenyl [2]		102	30-150					8/14/18 18:21	
Tetrachloro-m-xylene [1]		89.3	30-150					8/14/18 18:21	
Tetrachloro-m-xylene [2]		91.5	30-150					8/14/18 18:21	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/2/2018 12:00

Field Sample #: MP14

Sample ID: 18H0260-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 2:32	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
MCPP [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 2:32	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		79.4	30-150					8/16/18 2:32	
2,4-Dichlorophenylacetic acid [2]		79.9	30-150					8/16/18 2:32	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	92	18	mg/Kg dry	2		SW-846 8100 Modified	8/8/18	8/11/18 3:01	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		67.5	40-140					8/11/18 3:01	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/2/2018 12:00

Field Sample #: MP14

Sample ID: 18H0260-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Arsenic	8.2	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Barium	19	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Cadmium	0.31	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Chromium	12	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Lead	16	0.54	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:55	EJB
Nickel	11	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Vanadium	12	0.72	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW
Zinc	31	0.72	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:37	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP14

Sampled: 8/2/2018 12:00

Sample ID: 18H0260-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.5°C	7.1		pH Units	1	H-03	SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	17	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	91.9		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromochloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromoform	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Carbon Tetrachloride	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chlorodibromomethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloroethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2,2-Dichloropropane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
trans-1,3-Dichloropropene	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Diethyl Ether	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Diisopropyl Ether (DIPE)	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,4-Dioxane	ND	0.067	mg/Kg dry	1	V-16	SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Methylene Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
n-Propylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Styrene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	8/8/18 14:17
Toluene-d8	95.5	70-130	8/8/18 14:17
4-Bromofluorobenzene	92.8	70-130	8/8/18 14:17

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatle Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Acenaphthylene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Acetophenone	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Aniline	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(a)anthracene	2.6	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(a)pyrene	2.4	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(b)fluoranthene	2.7	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(g,h,i)perylene	1.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Benzo(k)fluoranthene	1.1	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Butylbenzylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Chloroaniline	ND	2.7	mg/Kg dry	2	V-34	SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Chloronaphthalene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Chlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Chrysene	2.6	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dibenz(a,h)anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dibenzofuran	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Di-n-butylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,3-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,4-Dichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
3,3-Dichlorobenzidine	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Diethylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Dimethylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dinitrophenol	ND	2.7	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Di-n-octylphthalate	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Fluoranthene	3.4	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Fluorene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachlorobutadiene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Hexachloroethane	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Isophorone	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Methylnaphthalene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
3/4-Methylphenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Naphthalene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Nitrobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2-Nitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
4-Nitrophenol	ND	2.7	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pentachlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Phenanthrene	ND	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Phenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pyrene	4.3	0.71	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Pyridine	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
1,2,4-Trichlorobenzene	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4,5-Trichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
2,4,6-Trichlorophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D	8/8/18	8/10/18 20:19	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.6	30-130					8/10/18 20:19	
Phenol-d6		60.2	30-130					8/10/18 20:19	
Nitrobenzene-d5		57.2	30-130					8/10/18 20:19	
2-Fluorobiphenyl		60.8	30-130					8/10/18 20:19	
2,4,6-Tribromophenol		48.3	30-130					8/10/18 20:19	
p-Terphenyl-d14		85.1	30-130					8/10/18 20:19	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.42	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Aldrin [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
alpha-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
beta-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
delta-BHC [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
gamma-BHC (Lindane) [2]	ND	0.042	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Chlordane [2]	ND	0.42	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDD [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDE [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
4,4'-DDT [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Dieldrin [2]	ND	0.084	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan I [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan II [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endosulfan sulfate [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin aldehyde [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Endrin ketone [2]	ND	0.17	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Heptachlor [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Heptachlor epoxide [2]	ND	0.10	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Hexachlorobenzene [2]	ND	0.13	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Methoxychlor [2]	ND	1.0	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Toxaphene [2]	ND	2.1	mg/Kg dry	20		SW-846 8081B	8/11/18	8/15/18 2:41	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.6	30-150					8/15/18 2:41	
Decachlorobiphenyl [2]		88.7	30-150					8/15/18 2:41	
Tetrachloro-m-xylene [1]		63.4	30-150					8/15/18 2:41	
Tetrachloro-m-xylene [2]		71.8	30-150					8/15/18 2:41	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.6	30-150					8/14/18 18:39	
Decachlorobiphenyl [2]		64.9	30-150					8/14/18 18:39	
Tetrachloro-m-xylene [1]		75.5	30-150					8/14/18 18:39	
Tetrachloro-m-xylene [2]		77.6	30-150					8/14/18 18:39	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 10:00

Field Sample #: MP21

Sample ID: 18H0260-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dalapon [1]	ND	65	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 3:11	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:11	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	75.2	30-150						8/16/18 3:11	
2,4-Dichlorophenylacetic acid [2]	76.3	30-150						8/16/18 3:11	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	670	350	mg/Kg dry	20		SW-846 8100 Modified	8/8/18	8/11/18 2:43	KLB
Surrogates	% Recovery		Recovery Limits	Flag/Qual					
2-Fluorobiphenyl	*		40-140	S-01		8/11/18 2:43			

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Arsenic	8.4	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Barium	30	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Cadmium	0.34	0.17	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Chromium	14	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Lead	38	0.52	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:57	EJB
Nickel	13	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Vanadium	18	0.70	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW
Zinc	31	0.70	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:42	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP21

Sampled: 8/6/2018 10:00

Sample ID: 18H0260-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.2°C	8.0		pH Units	1		SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.3	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	95.4		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromoform	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Bromomethane	ND	0.0081	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Carbon Tetrachloride	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chlorodibromomethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloroethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Chloromethane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3-Dichloropropane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2,2-Dichloropropane	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
cis-1,3-Dichloropropene	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
trans-1,3-Dichloropropene	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Diethyl Ether	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Diisopropyl Ether (DIPE)	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,4-Dioxane	ND	0.081	mg/Kg dry	1	V-16	SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Methylene Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
n-Propylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Styrene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1,2,2-Tetrachloroethane	ND	0.00081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Tetrahydrofuran	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
Vinyl Chloride	ND	0.0081	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/8/18	8/8/18 14:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.8	70-130	8/8/18 14:44
Toluene-d8	96.1	70-130	8/8/18 14:44
4-Bromofluorobenzene	94.3	70-130	8/8/18 14:44

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(a)pyrene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(b)fluoranthene	0.30	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(g,h,i)perylene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Fluoranthene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Indeno(1,2,3-cd)pyrene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pyrene	0.39	0.18	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/8/18	8/10/18 20:42	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		65.7	30-130					8/10/18 20:42	
Phenol-d6		63.2	30-130					8/10/18 20:42	
Nitrobenzene-d5		61.8	30-130					8/10/18 20:42	
2-Fluorobiphenyl		67.5	30-130					8/10/18 20:42	
2,4,6-Tribromophenol		54.3	30-130					8/10/18 20:42	
p-Terphenyl-d14		83.4	30-130					8/10/18 20:42	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Aldrin [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
alpha-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
beta-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
delta-BHC [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
gamma-BHC (Lindane) [2]	ND	0.021	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Chlordane [2]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDD [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDE [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
4,4'-DDT [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Dieldrin [2]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan I [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan II [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endosulfan sulfate [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin aldehyde [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Endrin ketone [2]	ND	0.085	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Heptachlor [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Heptachlor epoxide [2]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Hexachlorobenzene [2]	ND	0.064	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Methoxychlor [2]	ND	0.53	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Toxaphene [2]	ND	1.1	mg/Kg dry	10		SW-846 8081B	8/11/18	8/15/18 3:08	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					8/15/18 3:08	
Decachlorobiphenyl [2]		84.6	30-150					8/15/18 3:08	
Tetrachloro-m-xylene [1]		69.8	30-150					8/15/18 3:08	
Tetrachloro-m-xylene [2]		73.5	30-150					8/15/18 3:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/9/18	8/14/18 18:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.5	30-150					8/14/18 18:57	
Decachlorobiphenyl [2]		75.7	30-150					8/14/18 18:57	
Tetrachloro-m-xylene [1]		81.1	30-150					8/14/18 18:57	
Tetrachloro-m-xylene [2]		82.9	30-150					8/14/18 18:57	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 11:00

Field Sample #: MP25

Sample ID: 18H0260-05

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dalalpon [1]	ND	66	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Dinoseb [1]	ND	13	µg/kg dry	1	R-05	SW-846 8151A	8/10/18	8/16/18 3:50	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/10/18	8/16/18 3:50	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	79.0	30-150						8/16/18 3:50	
2,4-Dichlorophenylacetic acid [2]	85.8	30-150						8/16/18 3:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	89	18	mg/Kg dry	2		SW-846 8100 Modified	8/8/18	8/11/18 3:01	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		78.4	40-140					8/11/18 3:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Sampled: 8/6/2018 11:00

Field Sample #: MP25

Sample ID: 18H0260-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Arsenic	5.3	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Barium	15	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Cadmium	0.19	0.18	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Chromium	8.4	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Lead	33	0.53	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	8/13/18	8/14/18 10:58	EJB
Nickel	7.0	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Vanadium	9.6	0.71	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW
Zinc	28	0.71	mg/Kg dry	1		SW-846 6010D	8/13/18	8/14/18 16:47	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0260

Date Received: 8/6/2018

Field Sample #: MP25

Sampled: 8/6/2018 11:00

Sample ID: 18H0260-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/8/18	8/8/18 12:30	DJM
pH @23.1°C	7.2		pH Units	1		SW-846 9045C	8/6/18	8/6/18 19:17	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/10/18	8/13/18 13:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/10/18	8/13/18 12:40	DJM
Specific conductance	8.4	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/10/18	8/10/18 14:00	EC
% Solids	94.3		% Wt	1		SM 2540G	8/10/18	8/12/18 10:41	MAT

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0260-01 [MP13]	B210054	08/10/18
18H0260-02 [MP18]	B210054	08/10/18
18H0260-03 [MP14]	B210054	08/10/18
18H0260-04 [MP21]	B210054	08/10/18
18H0260-05 [MP25]	B210054	08/10/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B210003	1.00	08/10/18
18H0260-02 [MP18]	B210003	1.00	08/10/18
18H0260-03 [MP14]	B210003	1.00	08/10/18
18H0260-04 [MP21]	B210003	1.00	08/10/18
18H0260-05 [MP25]	B210003	1.00	08/10/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B209835	50.0	08/08/18
18H0260-02 [MP18]	B209835	50.0	08/08/18
18H0260-03 [MP14]	B209835	50.0	08/08/18
18H0260-04 [MP21]	B209835	50.0	08/08/18
18H0260-05 [MP25]	B209835	50.0	08/08/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210161	1.50	50.0	08/13/18
18H0260-02 [MP18]	B210161	1.50	50.0	08/13/18
18H0260-03 [MP14]	B210161	1.50	50.0	08/13/18
18H0260-04 [MP21]	B210161	1.51	50.0	08/13/18
18H0260-05 [MP25]	B210161	1.50	50.0	08/13/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210164	0.617	50.0	08/13/18
18H0260-02 [MP18]	B210164	0.626	50.0	08/13/18
18H0260-03 [MP14]	B210164	0.634	50.0	08/13/18
18H0260-04 [MP21]	B210164	0.613	50.0	08/13/18
18H0260-05 [MP25]	B210164	0.608	50.0	08/13/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210085	10.0	10.0	08/11/18
18H0260-02 [MP18]	B210085	10.0	10.0	08/11/18
18H0260-03 [MP14]	B210085	10.0	10.0	08/11/18
18H0260-04 [MP21]	B210085	10.0	10.0	08/11/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-05 [MP25]	B210085	10.0	10.0	08/11/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209900	10.0	10.0	08/09/18
18H0260-02 [MP18]	B209900	10.0	10.0	08/09/18
18H0260-03 [MP14]	B209900	10.0	10.0	08/09/18
18H0260-04 [MP21]	B209900	10.0	10.0	08/09/18
18H0260-05 [MP25]	B209900	10.0	10.0	08/09/18

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209877	30.4	1.00	08/08/18
18H0260-02 [MP18]	B209877	30.2	1.00	08/08/18
18H0260-03 [MP14]	B209877	30.2	1.00	08/08/18
18H0260-04 [MP21]	B209877	30.3	2.00	08/08/18
18H0260-05 [MP25]	B209877	30.0	1.00	08/08/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209967	20.0	5.00	08/10/18
18H0260-02 [MP18]	B209967	20.0	5.00	08/10/18
18H0260-03 [MP14]	B209967	20.2	5.00	08/10/18
18H0260-04 [MP21]	B209967	20.2	5.00	08/10/18
18H0260-05 [MP25]	B209967	20.2	5.00	08/10/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209755	5.61	10.0	08/07/18
18H0260-02 [MP18]	B209755	9.52	10.0	08/07/18
18H0260-03 [MP14]	B209755	8.16	10.0	08/07/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-04 [MP21]	B209859	7.85	10.0	08/08/18
18H0260-05 [MP25]	B209859	6.57	10.0	08/08/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B209874	30.4	1.00	08/08/18
18H0260-02 [MP18]	B209874	30.2	1.00	08/08/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-03 [MP14]	B209874	30.2	1.00	08/08/18
18H0260-04 [MP21]	B209874	30.3	2.00	08/08/18
18H0260-05 [MP25]	B209874	30.0	1.00	08/08/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210053	25.2	250	08/10/18
18H0260-02 [MP18]	B210053	25.1	250	08/10/18
18H0260-03 [MP14]	B210053	25.6	250	08/10/18
18H0260-04 [MP21]	B210053	25.6	250	08/10/18
18H0260-05 [MP25]	B210053	25.2	250	08/10/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0260-01 [MP13]	B210158	25.2	250	08/10/18
18H0260-02 [MP18]	B210158	25.1	250	08/10/18
18H0260-03 [MP14]	B210158	25.6	250	08/10/18
18H0260-04 [MP21]	B210158	25.6	250	08/10/18
18H0260-05 [MP25]	B210158	25.2	250	08/10/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0260-01 [MP13]	B209662	20.0	08/06/18
18H0260-02 [MP18]	B209662	20.0	08/06/18
18H0260-03 [MP14]	B209662	20.0	08/06/18
18H0260-04 [MP21]	B209662	20.0	08/06/18
18H0260-05 [MP25]	B209662	20.0	08/06/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
Blank (B209755-BLK1)										
Prepared & Analyzed: 08/07/18										
Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							R-05
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209755 - SW-846 5035

Blank (B209755-BLK1)

Prepared & Analyzed: 08/07/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0488		mg/Kg wet	0.0500		97.5	70-130			
Surrogate: Toluene-d8	0.0483		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0472		mg/Kg wet	0.0500		94.4	70-130			

LCS (B209755-BS1)

Prepared & Analyzed: 08/07/18

Acetone	0.254	0.10	mg/Kg wet	0.200		127	40-160			R-05 †
tert-Amyl Methyl Ether (TAME)	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130			
Benzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Bromobenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromoform	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		60.2	40-160			L-14, V-05, V-34 †
2-Butanone (MEK)	0.261	0.040	mg/Kg wet	0.200		130	40-160			R-05 †
n-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
sec-Butylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
tert-Butylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Carbon Disulfide	0.0196	0.0060	mg/Kg wet	0.0200		97.9	70-130			
Carbon Tetrachloride	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
Chlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0176	0.010	mg/Kg wet	0.0200		87.9	70-130			
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130			
Chloromethane	0.0206	0.010	mg/Kg wet	0.0200		103	40-160			†
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
4-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromoethane (EDB)	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,3-Dichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,4-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
LCS (B209755-BS1)										
Prepared & Analyzed: 08/07/18										
Dichlorodifluoromethane (Freon 12)	0.0240	0.010	mg/Kg wet	0.0200		120	40-160			†
1,1-Dichloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethylene	0.0181	0.0040	mg/Kg wet	0.0200		90.6	70-130			
cis-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dichloropropane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		99.3	70-130			
2,2-Dichloropropane	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130			
1,1-Dichloropropene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
trans-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Diethyl Ether	0.0179	0.010	mg/Kg wet	0.0200		89.3	70-130			
Diisopropyl Ether (DIPE)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103	40-160			V-16 †
Ethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Hexachlorobutadiene	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
2-Hexanone (MBK)	0.227	0.020	mg/Kg wet	0.200		113	40-160			R-05 †
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Methylene Chloride	0.0182	0.010	mg/Kg wet	0.0200		91.2	70-130			
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		98.8	40-160			†
Naphthalene	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
n-Propylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
1,1,1,2-Tetrachloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.6	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0166	0.010	mg/Kg wet	0.0200		82.8	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,1-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Trichlorofluoromethane (Freon 11)	0.0163	0.010	mg/Kg wet	0.0200		81.3	70-130			
1,2,3-Trichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,4-Trimethylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Vinyl Chloride	0.0193	0.010	mg/Kg wet	0.0200		96.7	70-130			
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130			
o-Xylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0468		mg/Kg wet	0.0500		93.7	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209755 - SW-846 5035										
LCS Dup (B209755-BSD1)										
Prepared & Analyzed: 08/07/18										
Acetone	0.416	0.10	mg/Kg wet	0.200		208 *	40-160	48.3 *	20	L-07A, R-05 †
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	2.04	20	
Benzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	1.03	20	
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.85	20	
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	0.0344	20	
Bromodichloromethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	3.07	20	
Bromoform	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.963	20	
Bromomethane	0.0126	0.010	mg/Kg wet	0.0200		63.2	40-160	4.83	20	L-14, V-05, V-34 †
2-Butanone (MEK)	0.405	0.040	mg/Kg wet	0.200		202 *	40-160	43.2 *	20	L-07A, R-05 †
n-Butylbenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	2.02	20	
sec-Butylbenzene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	1.95	20	
tert-Butylbenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	1.19	20	
tert-Butyl Ethyl Ether (TBEE)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	2.12	20	
Carbon Disulfide	0.0193	0.0060	mg/Kg wet	0.0200		96.6	70-130	1.28	20	
Carbon Tetrachloride	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.77	20	
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	0.849	20	
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	0.462	20	
Chloroethane	0.0173	0.010	mg/Kg wet	0.0200		86.6	70-130	1.42	20	
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		111	70-130	1.60	20	
Chloromethane	0.0202	0.010	mg/Kg wet	0.0200		101	40-160	2.10	20	†
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	2.00	20	
4-Chlorotoluene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.16	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	4.45	20	
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	2.04	20	
Dibromomethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.52	20	
1,2-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.641	20	
1,3-Dichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	2.02	20	
1,4-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.151	20	
Dichlorodifluoromethane (Freon 12)	0.0235	0.010	mg/Kg wet	0.0200		118	40-160	1.79	20	†
1,1-Dichloroethane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	0.0605	20	
1,2-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.117	20	
1,1-Dichloroethylene	0.0185	0.0040	mg/Kg wet	0.0200		92.7	70-130	2.30	20	
cis-1,2-Dichloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	0.302	20	
trans-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.303	20	
1,2-Dichloropropane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.13	20	
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	2.07	20	
2,2-Dichloropropane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	0.369	20	
1,1-Dichloropropene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.459	20	
cis-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	1.85	20	
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	0.995	20	
Diethyl Ether	0.0177	0.010	mg/Kg wet	0.0200		88.7	70-130	0.708	20	
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	0.828	20	
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103	40-160	0.146	20	V-16 †
Ethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	0.437	20	
Hexachlorobutadiene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130	2.15	20	
2-Hexanone (MBK)	0.349	0.020	mg/Kg wet	0.200		175 *	40-160	42.5 *	20	L-07A, R-05 †
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	0.402	20	
p-Isopropyltoluene (p-Cymene)	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	2.75	20	
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.0200		105	70-130	1.89	20	
Methylene Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.6	70-130	0.704	20	
4-Methyl-2-pentanone (MIBK)	0.217	0.020	mg/Kg wet	0.200		108	40-160	9.18	20	†
Naphthalene	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130	1.34	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209755 - SW-846 5035

LCS Dup (B209755-BSD1)

Prepared & Analyzed: 08/07/18

n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.03	20	
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	0.0102	20	
1,1,1,2-Tetrachloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130	0.210	20	
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130	3.15	20	
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	1.05	20	
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		90.2	70-130	8.65	20	
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	0.523	20	
1,2,3-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.62	20	
1,2,4-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	1.30	20	
1,1,1-Trichloroethane	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	2.71	20	
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	0.701	20	
Trichloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	1.61	20	
Trichlorofluoromethane (Freon 11)	0.0161	0.010	mg/Kg wet	0.0200		80.7	70-130	0.778	20	
1,2,3-Trichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	4.09	20	
1,2,4-Trimethylbenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	2.07	20	
1,3,5-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	0.911	20	
Vinyl Chloride	0.0194	0.010	mg/Kg wet	0.0200		96.9	70-130	0.289	20	
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		100	70-130	0.180	20	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.0464		mg/Kg wet	0.0500		92.7	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

Batch B209859 - SW-846 5035

Blank (B209859-BLK1)

Prepared & Analyzed: 08/08/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-05, V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
Blank (B209859-BLK1)										
Prepared & Analyzed: 08/08/18										
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: Toluene-d8	0.0474		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0474		mg/Kg wet	0.0500		94.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
LCS (B209859-BS1)										
Prepared & Analyzed: 08/08/18										
Acetone	0.164	0.10	mg/Kg wet	0.200		82.2	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Benzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			V-20
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0110	0.010	mg/Kg wet	0.0200		54.9	40-160			L-14, V-05, V-34 †
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	40-160			†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
sec-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130			
Carbon Disulfide	0.0184	0.0060	mg/Kg wet	0.0200		91.9	70-130			
Carbon Tetrachloride	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorodibromomethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0162	0.010	mg/Kg wet	0.0200		81.0	70-130			
Chloroform	0.0214	0.0040	mg/Kg wet	0.0200		107	70-130			
Chloromethane	0.0190	0.010	mg/Kg wet	0.0200		95.1	40-160			†
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			V-20
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Dibromomethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Dichlorodifluoromethane (Freon 12)	0.0211	0.010	mg/Kg wet	0.0200		105	40-160			†
1,1-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,1-Dichloroethylene	0.0174	0.0040	mg/Kg wet	0.0200		86.8	70-130			
cis-1,2-Dichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
trans-1,2-Dichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,3-Dichloropropane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloropropene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Diethyl Ether	0.0176	0.010	mg/Kg wet	0.0200		88.0	70-130			
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130			
1,4-Dioxane	0.187	0.10	mg/Kg wet	0.200		93.4	40-160			V-16 †
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160			†
Isopropylbenzene (Cumene)	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130			
Methylene Chloride	0.0163	0.010	mg/Kg wet	0.0200		81.3	70-130			
4-Methyl-2-pentanone (MIBK)	0.205	0.020	mg/Kg wet	0.200		103	40-160			†
Naphthalene	0.0200	0.0040	mg/Kg wet	0.0200		99.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209859 - SW-846 5035

LCS (B209859-BS1)

Prepared & Analyzed: 08/08/18

n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Styrene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,1,1,2-Tetrachloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.3	70-130			
Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Tetrahydrofuran	0.0190	0.010	mg/Kg wet	0.0200		95.1	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
1,2,3-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,4-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,1,1-Trichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichlorofluoromethane (Freon 11)	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130			
1,2,3-Trichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
1,2,4-Trimethylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130			
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.6	70-130			
m+p Xylene	0.0377	0.0040	mg/Kg wet	0.0400		94.2	70-130			
o-Xylene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0489		mg/Kg wet	0.0500		97.7	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0496		mg/Kg wet	0.0500		99.2	70-130			

LCS Dup (B209859-BS1)

Prepared & Analyzed: 08/08/18

Acetone	0.169	0.10	mg/Kg wet	0.200		84.5	40-160	2.77	20	†
tert-Amyl Methyl Ether (TAME)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	0.305	20	
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	3.07	20	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.75	20	
Bromochloromethane	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130	4.63	20	V-20
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.58	20	
Bromoform	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	4.11	20	
Bromomethane	0.0118	0.010	mg/Kg wet	0.0200		59.0	40-160	7.24	20	L-14, V-05, V-34 †
2-Butanone (MEK)	0.219	0.040	mg/Kg wet	0.200		110	40-160	3.48	20	†
n-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	8.07	20	
sec-Butylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	6.72	20	
tert-Butylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	4.23	20	
tert-Butyl Ethyl Ether (TBEE)	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130	0.228	20	
Carbon Disulfide	0.0189	0.0060	mg/Kg wet	0.0200		94.4	70-130	2.71	20	
Carbon Tetrachloride	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.01	20	
Chlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.62	20	
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	3.45	20	
Chloroethane	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	4.06	20	
Chloroform	0.0219	0.0040	mg/Kg wet	0.0200		110	70-130	2.49	20	
Chloromethane	0.0189	0.010	mg/Kg wet	0.0200		94.6	40-160	0.527	20	†
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.326	20	
4-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130	2.52	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	0.337	20	V-20
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	0.735	20	
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	20	
1,2-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	7.94	20	
1,3-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	6.65	20	
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	7.99	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209859 - SW-846 5035										
LCS Dup (B209859-BSD1)										
Prepared & Analyzed: 08/08/18										
Dichlorodifluoromethane (Freon 12)	0.0214	0.010	mg/Kg wet	0.0200		107	40-160	1.27	20	†
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	2.59	20	
1,2-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.26	20	
1,1-Dichloroethylene	0.0177	0.0040	mg/Kg wet	0.0200		88.5	70-130	1.93	20	
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.50	20	
trans-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	1.83	20	
1,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	5.71	20	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130	0.578	20	
2,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	1.21	20	
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	3.65	20	
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	0.270	20	
trans-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	3.34	20	
Diethyl Ether	0.0175	0.010	mg/Kg wet	0.0200		87.7	70-130	0.330	20	
Diisopropyl Ether (DIPE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130	2.01	20	
1,4-Dioxane	0.184	0.10	mg/Kg wet	0.200		91.8	40-160	1.75	20	V-16 †
Ethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	3.12	20	
Hexachlorobutadiene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	7.00	20	
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160	0.0343	20	†
Isopropylbenzene (Cumene)	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.04	20	
p-Isopropyltoluene (p-Cymene)	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	7.63	20	
Methyl tert-Butyl Ether (MTBE)	0.0215	0.0040	mg/Kg wet	0.0200		108	70-130	1.34	20	
Methylene Chloride	0.0167	0.010	mg/Kg wet	0.0200		83.5	70-130	2.63	20	
4-Methyl-2-pentanone (MIBK)	0.210	0.020	mg/Kg wet	0.200		105	40-160	2.26	20	†
Naphthalene	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	6.11	20	
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.328	20	
Styrene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	1.08	20	
1,1,1,2-Tetrachloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.77	20	
1,1,1,2,2-Tetrachloroethane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	0.752	20	
Tetrachloroethylene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.51	20	
Tetrahydrofuran	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130	3.61	20	
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.61	20	
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	6.29	20	
1,2,4-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	8.91	20	
1,1,1-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	1.89	20	
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.83	20	
Trichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	5.40	20	
Trichlorofluoromethane (Freon 11)	0.0156	0.010	mg/Kg wet	0.0200		77.8	70-130	3.25	20	
1,2,3-Trichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.22	20	
1,2,4-Trimethylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	5.53	20	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	0.0209	20	
Vinyl Chloride	0.0186	0.010	mg/Kg wet	0.0200		93.2	70-130	4.99	20	
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.5	70-130	3.43	20	
o-Xylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	2.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.0487		mg/Kg wet	0.0500		97.5	70-130			
Surrogate: Toluene-d8	0.0478		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0478		mg/Kg wet	0.0500		95.7	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

Blank (B209874-BLK1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

Blank (B209874-BLK1)

Prepared: 08/08/18 Analyzed: 08/10/18

Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.63		mg/Kg wet	6.67		69.4	30-130			
Surrogate: Phenol-d6	4.70		mg/Kg wet	6.67		70.5	30-130			
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2,4,6-Tribromophenol	3.63		mg/Kg wet	6.67		54.5	30-130			
Surrogate: p-Terphenyl-d14	2.69		mg/Kg wet	3.33		80.6	30-130			

LCS (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.7	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acetophenone	1.07	0.34	mg/Kg wet	1.67		64.0	40-140			
Aniline	1.09	0.34	mg/Kg wet	1.67		65.5	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Benzo(a)anthracene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Bis(2-chloroethoxy)methane	1.12	0.34	mg/Kg wet	1.67		67.3	40-140			
Bis(2-chloroethyl)ether	0.990	0.34	mg/Kg wet	1.67		59.4	40-140			
Bis(2-chloroisopropyl)ether	1.28	0.34	mg/Kg wet	1.67		76.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.0	40-140			
4-Bromophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.4	40-140			
Butylbenzylphthalate	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			
4-Chloroaniline	1.01	0.66	mg/Kg wet	1.67		60.9	15-140			V-34 †
2-Chloronaphthalene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140			
2-Chlorophenol	1.12	0.34	mg/Kg wet	1.67		67.0	30-130			
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140			
Dibenzofuran	1.12	0.34	mg/Kg wet	1.67		66.9	40-140			
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
1,2-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		63.1	40-140			
1,3-Dichlorobenzene	0.997	0.34	mg/Kg wet	1.67		59.8	40-140			
1,4-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.3	40-140			
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
2,4-Dichlorophenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130			
Diethylphthalate	1.03	0.34	mg/Kg wet	1.67		61.6	40-140			
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			
Dimethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.6	40-140			
2,4-Dinitrophenol	0.448	0.66	mg/Kg wet	1.67		26.9	15-140			†
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
2,6-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.5	40-140			
Di-n-octylphthalate	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209874 - SW-846 3546

LCS (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Hexachlorobenzene	1.05	0.34	mg/Kg wet	1.67		62.7	40-140			
Hexachlorobutadiene	1.02	0.34	mg/Kg wet	1.67		61.0	40-140			
Hexachloroethane	0.990	0.34	mg/Kg wet	1.67		59.4	40-140			
Indeno(1,2,3-cd)pyrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140			
2-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.3	30-130			
3/4-Methylphenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.8	40-140			
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		71.7	30-130			
4-Nitrophenol	1.21	0.66	mg/Kg wet	1.67		72.7	15-140			†
Pentachlorophenol	0.605	0.34	mg/Kg wet	1.67		36.3	30-130			
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140			
Phenol	1.13	0.34	mg/Kg wet	1.67		67.5	15-140			†
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Pyridine	0.742	0.34	mg/Kg wet	1.67		44.5	30-140			†
1,2,4-Trichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140			
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.8	30-130			
2,4,6-Trichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.7	30-130			
Surrogate: 2-Fluorophenol	4.80		mg/Kg wet	6.67		72.0	30-130			
Surrogate: Phenol-d6	4.96		mg/Kg wet	6.67		74.3	30-130			
Surrogate: Nitrobenzene-d5	2.24		mg/Kg wet	3.33		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.35		mg/Kg wet	6.67		65.2	30-130			
Surrogate: p-Terphenyl-d14	2.84		mg/Kg wet	3.33		85.2	30-130			

LCS Dup (B209874-BS1)

Prepared: 08/08/18 Analyzed: 08/10/18

Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	5.94	30	
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.7	40-140	6.96	30	
Acetophenone	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	8.67	30	
Aniline	0.868	0.34	mg/Kg wet	1.67		52.1	40-140	22.8	30	
Anthracene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	5.30	30	
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	5.71	30	
Benzo(a)pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	6.51	30	
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	7.03	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	7.07	30	
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	5.07	30	
Bis(2-chloroethoxy)methane	1.24	0.34	mg/Kg wet	1.67		74.3	40-140	9.80	30	
Bis(2-chloroethyl)ether	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	14.8	30	
Bis(2-chloroisopropyl)ether	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	13.0	30	
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	6.07	30	
4-Bromophenylphenylether	1.12	0.34	mg/Kg wet	1.67		66.9	40-140	3.87	30	
Butylbenzylphthalate	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	5.78	30	
4-Chloroaniline	0.833	0.66	mg/Kg wet	1.67		50.0	15-140	19.6	30	V-34 †
2-Chloronaphthalene	1.05	0.34	mg/Kg wet	1.67		62.8	40-140	7.40	30	
2-Chlorophenol	1.22	0.34	mg/Kg wet	1.67		73.4	30-130	9.03	30	
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	5.15	30	
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	7.32	30	
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.8	40-140	5.72	30	
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	5.21	30	
1,2-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.5	40-140	8.15	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209874 - SW-846 3546										
LCS Dup (B209874-BSD1)										
					Prepared: 08/08/18 Analyzed: 08/10/18					
1,3-Dichlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140	9.85	30	
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	9.50	30	
3,3-Dichlorobenzidine	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	20.0	30	
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2	30-130	7.39	30	
Diethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	5.28	30	
2,4-Dimethylphenol	1.35	0.34	mg/Kg wet	1.67		81.2	30-130	7.64	30	
Dimethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.6	40-140	5.94	30	
2,4-Dinitrophenol	0.478	0.66	mg/Kg wet	1.67		28.7	15-140	6.55	30	†
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	5.89	30	
2,6-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	5.16	30	
Di-n-octylphthalate	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	5.48	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	7.72	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	2.53	30	
Fluorene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140	4.74	30	
Hexachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4	40-140	4.24	30	
Hexachlorobutadiene	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	7.05	30	
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	8.57	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140	1.56	30	
Isophorone	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	8.76	30	
2-Methylnaphthalene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	8.87	30	
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.1	30-130	7.27	30	
3/4-Methylphenol	1.32	0.34	mg/Kg wet	1.67		79.0	30-130	6.64	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	9.56	30	
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.5	40-140	11.7	30	
2-Nitrophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130	9.18	30	
4-Nitrophenol	1.28	0.66	mg/Kg wet	1.67		77.1	15-140	5.88	30	†
Pentachlorophenol	0.620	0.34	mg/Kg wet	1.67		37.2	30-130	2.45	30	
Phenanthrene	1.29	0.17	mg/Kg wet	1.67		77.4	40-140	4.98	30	
Phenol	1.21	0.34	mg/Kg wet	1.67		72.3	15-140	6.86	30	†
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	6.04	30	
Pyridine	0.798	0.34	mg/Kg wet	1.67		47.9	30-140	7.19	30	†
1,2,4-Trichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.9	40-140	8.20	30	
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130	5.55	30	
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.4	30-130	3.85	30	
Surrogate: 2-Fluorophenol	5.24		mg/Kg wet	6.67		78.5	30-130			
Surrogate: Phenol-d6	5.29		mg/Kg wet	6.67		79.4	30-130			
Surrogate: Nitrobenzene-d5	2.50		mg/Kg wet	3.33		75.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.33		80.5	30-130			
Surrogate: 2,4,6-Tribromophenol	4.46		mg/Kg wet	6.67		66.9	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/Kg wet	3.33		89.0	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210085 - SW-846 3546

Blank (B210085-BLK1)

Prepared: 08/11/18 Analyzed: 08/14/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.134		mg/Kg wet	0.200		67.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.124		mg/Kg wet	0.200		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.126		mg/Kg wet	0.200		63.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.110		mg/Kg wet	0.200		55.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210085 - SW-846 3546										
LCS (B210085-BS1)										
Prepared: 08/11/18 Analyzed: 08/14/18										
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140			
alpha-Chlordane [2C]	0.076	0.0050	mg/Kg wet	0.100		75.6	40-140			
gamma-Chlordane	0.079	0.0050	mg/Kg wet	0.100		79.2	40-140			
gamma-Chlordane [2C]	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Alachlor	0.087	0.020	mg/Kg wet	0.100		86.9	40-140			
Alachlor [2C]	0.081	0.020	mg/Kg wet	0.100		80.7	40-140			
Aldrin	0.084	0.0050	mg/Kg wet	0.100		83.8	40-140			
Aldrin [2C]	0.071	0.0050	mg/Kg wet	0.100		70.5	40-140			
alpha-BHC	0.069	0.0050	mg/Kg wet	0.100		69.4	40-140			
alpha-BHC [2C]	0.064	0.0050	mg/Kg wet	0.100		63.6	40-140			
beta-BHC	0.072	0.0050	mg/Kg wet	0.100		71.9	40-140			
beta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		62.8	40-140			
delta-BHC	0.077	0.0050	mg/Kg wet	0.100		77.3	40-140			
delta-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.8	40-140			
gamma-BHC (Lindane)	0.076	0.0020	mg/Kg wet	0.100		75.6	40-140			
gamma-BHC (Lindane) [2C]	0.066	0.0020	mg/Kg wet	0.100		65.9	40-140			
4,4'-DDD	0.090	0.0040	mg/Kg wet	0.100		89.7	40-140			
4,4'-DDD [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140			
4,4'-DDE	0.089	0.0040	mg/Kg wet	0.100		88.9	40-140			
4,4'-DDE [2C]	0.075	0.0040	mg/Kg wet	0.100		75.2	40-140			
4,4'-DDT	0.090	0.0040	mg/Kg wet	0.100		90.5	40-140			
4,4'-DDT [2C]	0.073	0.0040	mg/Kg wet	0.100		73.4	40-140			
Dieldrin	0.086	0.0040	mg/Kg wet	0.100		85.5	40-140			
Dieldrin [2C]	0.070	0.0040	mg/Kg wet	0.100		70.5	40-140			
Endosulfan I	0.078	0.0050	mg/Kg wet	0.100		77.7	40-140			
Endosulfan I [2C]	0.071	0.0050	mg/Kg wet	0.100		70.8	40-140			
Endosulfan II	0.082	0.0080	mg/Kg wet	0.100		82.3	40-140			
Endosulfan II [2C]	0.075	0.0080	mg/Kg wet	0.100		75.0	40-140			
Endosulfan Sulfate	0.090	0.0080	mg/Kg wet	0.100		89.6	40-140			
Endosulfan Sulfate [2C]	0.077	0.0080	mg/Kg wet	0.100		76.9	40-140			
Endrin	0.083	0.0080	mg/Kg wet	0.100		82.9	40-140			
Endrin [2C]	0.073	0.0080	mg/Kg wet	0.100		73.3	40-140			
Endrin Aldehyde	0.082	0.0080	mg/Kg wet	0.100		82.0	40-140			
Endrin Aldehyde [2C]	0.078	0.0080	mg/Kg wet	0.100		78.4	40-140			
Endrin Ketone	0.087	0.0080	mg/Kg wet	0.100		87.5	40-140			
Endrin Ketone [2C]	0.078	0.0080	mg/Kg wet	0.100		77.7	40-140			
Heptachlor	0.080	0.0050	mg/Kg wet	0.100		79.7	40-140			
Heptachlor [2C]	0.070	0.0050	mg/Kg wet	0.100		70.4	40-140			
Heptachlor Epoxide	0.081	0.0050	mg/Kg wet	0.100		80.8	40-140			
Heptachlor Epoxide [2C]	0.073	0.0050	mg/Kg wet	0.100		73.1	40-140			
Hexachlorobenzene	0.080	0.0060	mg/Kg wet	0.100		79.5	40-140			
Hexachlorobenzene [2C]	0.073	0.0060	mg/Kg wet	0.100		73.0	40-140			
Methoxychlor	0.088	0.050	mg/Kg wet	0.100		87.5	40-140			
Methoxychlor [2C]	0.091	0.050	mg/Kg wet	0.100		91.0	40-140			
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.146		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.130		mg/Kg wet	0.200		64.9	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210085 - SW-846 3546										
LCS Dup (B210085-BSD1)										
					Prepared: 08/11/18 Analyzed: 08/14/18					
alpha-Chlordane	0.076	0.0050	mg/Kg wet	0.100		76.5	40-140	7.36	30	
alpha-Chlordane [2C]	0.071	0.0050	mg/Kg wet	0.100		70.5	40-140	6.92	30	
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.100		73.8	40-140	7.13	30	
gamma-Chlordane [2C]	0.075	0.0050	mg/Kg wet	0.100		74.7	40-140	7.84	30	
Alachlor	0.083	0.020	mg/Kg wet	0.100		83.2	40-140	4.42	30	
Alachlor [2C]	0.075	0.020	mg/Kg wet	0.100		75.4	40-140	6.84	30	
Aldrin	0.078	0.0050	mg/Kg wet	0.100		78.3	40-140	6.78	30	
Aldrin [2C]	0.067	0.0050	mg/Kg wet	0.100		66.6	40-140	5.83	30	
alpha-BHC	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	4.51	30	
alpha-BHC [2C]	0.061	0.0050	mg/Kg wet	0.100		60.7	40-140	4.59	30	
beta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140	4.16	30	
beta-BHC [2C]	0.060	0.0050	mg/Kg wet	0.100		60.3	40-140	3.94	30	
delta-BHC	0.077	0.0050	mg/Kg wet	0.100		76.7	40-140	0.796	30	
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.7	40-140	3.00	30	
gamma-BHC (Lindane)	0.072	0.0020	mg/Kg wet	0.100		72.2	40-140	4.70	30	
gamma-BHC (Lindane) [2C]	0.063	0.0020	mg/Kg wet	0.100		63.0	40-140	4.48	30	
4,4'-DDD	0.083	0.0040	mg/Kg wet	0.100		82.6	40-140	8.26	30	
4,4'-DDD [2C]	0.071	0.0040	mg/Kg wet	0.100		71.2	40-140	7.52	30	
4,4'-DDE	0.082	0.0040	mg/Kg wet	0.100		82.0	40-140	8.01	30	
4,4'-DDE [2C]	0.070	0.0040	mg/Kg wet	0.100		69.8	40-140	7.48	30	
4,4'-DDT	0.083	0.0040	mg/Kg wet	0.100		83.3	40-140	8.21	30	
4,4'-DDT [2C]	0.068	0.0040	mg/Kg wet	0.100		68.1	40-140	7.57	30	
Dieldrin	0.079	0.0040	mg/Kg wet	0.100		79.4	40-140	7.48	30	
Dieldrin [2C]	0.066	0.0040	mg/Kg wet	0.100		66.0	40-140	6.54	30	
Endosulfan I	0.072	0.0050	mg/Kg wet	0.100		72.1	40-140	7.44	30	
Endosulfan I [2C]	0.066	0.0050	mg/Kg wet	0.100		66.1	40-140	6.94	30	
Endosulfan II	0.076	0.0080	mg/Kg wet	0.100		76.1	40-140	7.81	30	
Endosulfan II [2C]	0.070	0.0080	mg/Kg wet	0.100		69.8	40-140	7.17	30	
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		82.9	40-140	7.74	30	
Endosulfan Sulfate [2C]	0.071	0.0080	mg/Kg wet	0.100		71.4	40-140	7.44	30	
Endrin	0.077	0.0080	mg/Kg wet	0.100		77.1	40-140	7.22	30	
Endrin [2C]	0.069	0.0080	mg/Kg wet	0.100		68.7	40-140	6.49	30	
Endrin Aldehyde	0.075	0.0080	mg/Kg wet	0.100		75.3	40-140	8.56	30	
Endrin Aldehyde [2C]	0.073	0.0080	mg/Kg wet	0.100		72.9	40-140	7.29	30	
Endrin Ketone	0.080	0.0080	mg/Kg wet	0.100		80.3	40-140	8.51	30	
Endrin Ketone [2C]	0.072	0.0080	mg/Kg wet	0.100		71.9	40-140	7.70	30	
Heptachlor	0.075	0.0050	mg/Kg wet	0.100		75.1	40-140	5.93	30	
Heptachlor [2C]	0.068	0.0050	mg/Kg wet	0.100		67.8	40-140	3.80	30	
Heptachlor Epoxide	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	7.17	30	
Heptachlor Epoxide [2C]	0.069	0.0050	mg/Kg wet	0.100		69.3	40-140	5.22	30	
Hexachlorobenzene	0.075	0.0060	mg/Kg wet	0.100		74.8	40-140	6.14	30	
Hexachlorobenzene [2C]	0.068	0.0060	mg/Kg wet	0.100		68.4	40-140	6.37	30	
Methoxychlor	0.080	0.050	mg/Kg wet	0.100		80.2	40-140	8.79	30	
Methoxychlor [2C]	0.084	0.050	mg/Kg wet	0.100		84.3	40-140	7.64	30	
Surrogate: Decachlorobiphenyl	0.145		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.133		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.136		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.119		mg/Kg wet	0.200		59.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209900 - SW-846 3546										
Blank (B209900-BLK1)										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.225		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg wet	0.200		95.8	30-150			
LCS (B209900-BS1)										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.9	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		96.7	40-140			
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Surrogate: Decachlorobiphenyl	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
LCS Dup (B209900-BSD1)										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.1	40-140	1.18	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.1	40-140	2.60	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.0	40-140	1.41	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	1.52	30	
Surrogate: Decachlorobiphenyl	0.224		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.233		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209900 - SW-846 3546

Matrix Spike (B209900-MS1)

Source: 18H0260-03

Prepared: 08/09/18 Analyzed: 08/14/18

Aroclor-1016	0.15	0.087	mg/Kg dry	0.218	ND	70.5	40-140			
Aroclor-1016 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	70.7	40-140			
Aroclor-1260	0.13	0.087	mg/Kg dry	0.218	ND	61.7	40-140			
Aroclor-1260 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	69.2	40-140			
Surrogate: Decachlorobiphenyl	0.171		mg/Kg dry	0.218		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg dry	0.218		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg dry	0.218		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg dry	0.218		75.1	30-150			

Matrix Spike Dup (B209900-MSD1)

Source: 18H0260-03

Prepared: 08/09/18 Analyzed: 08/14/18

Aroclor-1016	0.17	0.087	mg/Kg dry	0.218	ND	75.9	40-140	7.32	30	
Aroclor-1016 [2C]	0.16	0.087	mg/Kg dry	0.218	ND	73.0	40-140	3.22	30	
Aroclor-1260	0.13	0.087	mg/Kg dry	0.218	ND	60.5	40-140	1.94	30	
Aroclor-1260 [2C]	0.15	0.087	mg/Kg dry	0.218	ND	69.8	40-140	0.823	30	
Surrogate: Decachlorobiphenyl	0.167		mg/Kg dry	0.218		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.176		mg/Kg dry	0.218		80.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.158		mg/Kg dry	0.218		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg dry	0.218		73.9	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
Blank (B209967-BLK1)										
Prepared: 08/10/18 Analyzed: 08/15/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							R-05
Dinoseb [2C]	ND	12	µg/kg wet							R-05
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	73.3		µg/kg wet	95.2		77.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	71.6		µg/kg wet	95.2		75.2	30-150			
LCS (B209967-BS1)										
Prepared: 08/10/18 Analyzed: 08/15/18										
2,4-D	114	25	µg/kg wet	125		91.5	40-140			
2,4-D [2C]	116	25	µg/kg wet	125		92.8	40-140			
2,4-DB	123	25	µg/kg wet	125		98.4	40-140			
2,4-DB [2C]	121	25	µg/kg wet	125		96.8	40-140			
2,4,5-TP (Silvex)	11.1	2.5	µg/kg wet	12.5		88.9	40-140			
2,4,5-TP (Silvex) [2C]	11.4	2.5	µg/kg wet	12.5		90.9	40-140			
2,4,5-T	11.7	2.5	µg/kg wet	12.5		93.5	40-140			
2,4,5-T [2C]	12.2	2.5	µg/kg wet	12.5		98.0	40-140			
Dalapon	213	62	µg/kg wet	312		68.0	40-140			
Dalapon [2C]	209	62	µg/kg wet	312		66.9	40-140			
Dicamba	11.8	2.5	µg/kg wet	12.5		94.8	40-140			
Dicamba [2C]	11.6	2.5	µg/kg wet	12.5		93.1	40-140			
Dichloroprop	114	25	µg/kg wet	125		91.2	40-140			
Dichloroprop [2C]	115	25	µg/kg wet	125		92.1	40-140			
Dinoseb	14.3	12	µg/kg wet	62.5		22.8	0-42.4			R-05
Dinoseb [2C]	14.4	12	µg/kg wet	62.5		23.1	0-41.1			R-05
MCPA	12200	2500	µg/kg wet	12500		97.8	40-140			
MCPA [2C]	10100	2500	µg/kg wet	12500		80.5	40-140			
MCPP	14800	2500	µg/kg wet	12500		119	40-140			
MCPP [2C]	10700	2500	µg/kg wet	12500		85.3	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	92.2		µg/kg wet	100		92.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	87.6		µg/kg wet	100		87.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
LCS Dup (B209967-BSD1)										
					Prepared: 08/10/18 Analyzed: 08/15/18					
2,4-D	109	25	µg/kg wet	125		86.9	40-140	5.16	30	
2,4-D [2C]	110	25	µg/kg wet	125		87.6	40-140	5.72	30	
2,4-DB	113	25	µg/kg wet	125		90.5	40-140	8.30	30	
2,4-DB [2C]	113	25	µg/kg wet	125		90.6	40-140	6.68	30	
2,4,5-TP (Silvex)	10.8	2.5	µg/kg wet	12.5		86.4	40-140	2.81	30	
2,4,5-TP (Silvex) [2C]	11.2	2.5	µg/kg wet	12.5		89.5	40-140	1.53	30	
2,4,5-T	10.4	2.5	µg/kg wet	12.5		83.1	40-140	11.7	30	
2,4,5-T [2C]	10.4	2.5	µg/kg wet	12.5		83.1	40-140	16.4	30	
Dalapon	188	62	µg/kg wet	312		60.2	40-140	12.2	30	
Dalapon [2C]	184	62	µg/kg wet	312		59.0	40-140	12.5	30	
Dicamba	10.8	2.5	µg/kg wet	12.5		86.1	40-140	9.65	30	
Dicamba [2C]	11.1	2.5	µg/kg wet	12.5		88.5	40-140	5.01	30	
Dichloroprop	109	25	µg/kg wet	125		87.5	40-140	4.15	30	
Dichloroprop [2C]	112	25	µg/kg wet	125		89.3	40-140	3.08	30	
Dinoseb	10.3	12	µg/kg wet	62.5		16.5	0-42.4	32.3	*	30 R-05
Dinoseb [2C]	10.3	12	µg/kg wet	62.5		16.5	0-41.1	33.3	*	30 R-05
MCPA	11000	2500	µg/kg wet	12500		87.6	40-140	11.0	30	
MCPA [2C]	9500	2500	µg/kg wet	12500		76.0	40-140	5.77	30	
MCPP	14400	2500	µg/kg wet	12500		115	40-140	3.26	30	
MCPP [2C]	10100	2500	µg/kg wet	12500		80.6	40-140	5.75	30	
Surrogate: 2,4-Dichlorophenylacetic acid	82.6		µg/kg wet	100		82.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	83.3		µg/kg wet	100		83.3	30-150			
Matrix Spike (B209967-MS1)										
			Source: 18H0260-02		Prepared: 08/10/18 Analyzed: 08/16/18					
2,4-D	121	26	µg/kg dry	130	ND	92.8	30-150			
2,4-D [2C]	119	26	µg/kg dry	130	ND	91.3	30-150			
2,4-DB	118	26	µg/kg dry	130	ND	90.9	30-150			
2,4-DB [2C]	125	26	µg/kg dry	130	ND	95.9	30-150			
2,4,5-TP (Silvex)	11.7	2.6	µg/kg dry	13.0	ND	90.1	30-150			
2,4,5-TP (Silvex) [2C]	12.2	2.6	µg/kg dry	13.0	ND	93.8	30-150			
2,4,5-T	10.8	2.6	µg/kg dry	13.0	ND	82.8	30-150			
2,4,5-T [2C]	11.4	2.6	µg/kg dry	13.0	ND	87.7	30-150			
Dalapon	212	65	µg/kg dry	326	ND	65.0	30-150			
Dalapon [2C]	215	65	µg/kg dry	326	ND	66.1	30-150			
Dicamba	10.1	2.6	µg/kg dry	13.0	ND	77.5	30-150			
Dicamba [2C]	12.1	2.6	µg/kg dry	13.0	ND	93.2	30-150			
Dichloroprop	117	26	µg/kg dry	130	ND	89.8	30-150			
Dichloroprop [2C]	114	26	µg/kg dry	130	ND	87.5	30-150			
Dinoseb	25.0	13	µg/kg dry	65.1	ND	38.3	10-150			R-05
Dinoseb [2C]	24.7	13	µg/kg dry	65.1	ND	37.8	10-150			R-05
MCPA	12400	2600	µg/kg dry	13000	ND	95.5	30-150			
MCPA [2C]	9890	2600	µg/kg dry	13000	ND	75.9	30-150			
MCPP	16700	2600	µg/kg dry	13000	ND	128	30-150			
MCPP [2C]	10900	2600	µg/kg dry	13000	ND	83.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid	87.9		µg/kg dry	104		84.3	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	91.6		µg/kg dry	104		87.8	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209967 - SW-846 8151										
Matrix Spike Dup (B209967-MSD1)										
		Source: 18H0260-02			Prepared: 08/10/18 Analyzed: 08/16/18					
2,4-D	116	26	µg/kg dry	130	ND	89.0	30-150	4.15	30	
2,4-D [2C]	121	26	µg/kg dry	130	ND	92.7	30-150	1.52	30	
2,4-DB	125	26	µg/kg dry	130	ND	95.8	30-150	5.23	30	
2,4-DB [2C]	126	26	µg/kg dry	130	ND	97.0	30-150	1.13	30	
2,4,5-TP (Silvex)	11.6	2.6	µg/kg dry	13.0	ND	89.2	30-150	0.988	30	
2,4,5-TP (Silvex) [2C]	12.6	2.6	µg/kg dry	13.0	ND	96.6	30-150	2.97	30	
2,4,5-T	11.3	2.6	µg/kg dry	13.0	ND	86.6	30-150	4.40	30	
2,4,5-T [2C]	11.6	2.6	µg/kg dry	13.0	ND	89.0	30-150	1.48	30	
Dalapon	200	65	µg/kg dry	326	ND	61.4	30-150	5.57	30	
Dalapon [2C]	205	65	µg/kg dry	326	ND	62.9	30-150	4.81	30	
Dicamba	10.4	2.6	µg/kg dry	13.0	ND	80.1	30-150	3.28	30	
Dicamba [2C]	12.1	2.6	µg/kg dry	13.0	ND	93.2	30-150	0.0236	30	
Dichloroprop	119	26	µg/kg dry	130	ND	91.1	30-150	1.40	30	
Dichloroprop [2C]	116	26	µg/kg dry	130	ND	88.8	30-150	1.43	30	
Dinoseb	24.9	13	µg/kg dry	65.1	ND	38.2	10-150	0.169	30	R-05
Dinoseb [2C]	25.7	13	µg/kg dry	65.1	ND	39.4	10-150	4.10	30	R-05
MCPA	11300	2600	µg/kg dry	13000	ND	87.1	30-150	9.20	30	
MCPA [2C]	10000	2600	µg/kg dry	13000	ND	76.8	30-150	1.14	30	
MCPP	13300	2600	µg/kg dry	13000	ND	102	30-150	22.5	30	
MCPP [2C]	10700	2600	µg/kg dry	13000	ND	82.5	30-150	1.28	30	
Surrogate: 2,4-Dichlorophenylacetic acid	90.2		µg/kg dry	104		86.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	93.9		µg/kg dry	104		90.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209877 - SW-846 3546										
Blank (B209877-BLK1)					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.65		mg/Kg wet	3.33		79.5	40-140			
LCS (B209877-BS1)					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	26.6	8.3	mg/Kg wet	33.3		79.7	40-140			
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.5	40-140			
LCS Dup (B209877-BSD1)					Prepared: 08/08/18 Analyzed: 08/10/18					
TPH (C9-C36)	27.5	8.3	mg/Kg wet	33.3		82.6	40-140	3.59	30	
Surrogate: 2-Fluorobiphenyl	2.71		mg/Kg wet	3.33		81.2	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210161 - SW-846 3050B

Blank (B210161-BLK1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	ND	1.6	mg/Kg wet							
Arsenic	ND	1.6	mg/Kg wet							
Barium	ND	1.6	mg/Kg wet							
Beryllium	ND	0.16	mg/Kg wet							
Cadmium	ND	0.16	mg/Kg wet							
Chromium	ND	0.32	mg/Kg wet							
Lead	ND	0.48	mg/Kg wet							
Nickel	ND	0.32	mg/Kg wet							
Selenium	ND	3.2	mg/Kg wet							
Silver	ND	0.32	mg/Kg wet							
Thallium	ND	1.6	mg/Kg wet							
Vanadium	ND	0.64	mg/Kg wet							
Zinc	ND	0.64	mg/Kg wet							

LCS (B210161-BS1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	63.7	5.0	mg/Kg wet	75.5		84.4	3.8-196			
Arsenic	165	5.0	mg/Kg wet	161		102	83.2-116.8			
Barium	292	5.0	mg/Kg wet	260		112	82.7-117.3			
Beryllium	102	0.50	mg/Kg wet	97.6		105	83.4-116.8			
Cadmium	215	0.50	mg/Kg wet	211		102	83.4-116.6			
Chromium	143	1.0	mg/Kg wet	136		105	82.4-117.6			
Lead	115	1.5	mg/Kg wet	111		104	83-117.1			
Nickel	92.2	1.0	mg/Kg wet	91.9		100	82.9-117.5			
Selenium	194	10	mg/Kg wet	191		102	79.6-120.9			
Silver	45.0	1.0	mg/Kg wet	43.3		104	79.9-119.9			
Thallium	164	5.0	mg/Kg wet	156		105	81.4-119.2			
Vanadium	55.2	2.0	mg/Kg wet	56.7		97.4	79-121.2			
Zinc	213	2.0	mg/Kg wet	199		107	81.4-119.1			

LCS Dup (B210161-BSD1)

Prepared: 08/13/18 Analyzed: 08/14/18

Antimony	63.3	4.9	mg/Kg wet	75.5		83.9	3.8-196	0.651	30	
Arsenic	162	4.9	mg/Kg wet	161		101	83.2-116.8	1.84	30	
Barium	270	4.9	mg/Kg wet	260		104	82.7-117.3	7.86	30	
Beryllium	99.8	0.49	mg/Kg wet	97.6		102	83.4-116.8	2.34	30	
Cadmium	212	0.49	mg/Kg wet	211		101	83.4-116.6	1.21	30	
Chromium	140	0.99	mg/Kg wet	136		103	82.4-117.6	2.09	30	
Lead	109	1.5	mg/Kg wet	111		98.4	83-117.1	5.49	30	
Nickel	91.4	0.99	mg/Kg wet	91.9		99.5	82.9-117.5	0.876	30	
Selenium	193	9.9	mg/Kg wet	191		101	79.6-120.9	0.598	30	
Silver	42.9	0.99	mg/Kg wet	43.3		99.1	79.9-119.9	4.71	30	
Thallium	168	4.9	mg/Kg wet	156		108	81.4-119.2	2.30	30	
Vanadium	54.4	2.0	mg/Kg wet	56.7		96.0	79-121.2	1.45	30	
Zinc	200	2.0	mg/Kg wet	199		101	81.4-119.1	6.30	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210161 - SW-846 3050B										
MRL Check (B210161-MRL1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Lead	0.497	0.51	mg/Kg wet	0.508		98.0	80-120			
Batch B210164 - SW-846 7471										
Blank (B210164-BLK1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B210164-BS1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	10.0	1.9	mg/Kg wet	9.36		107	73.7-126.3			
LCS Dup (B210164-BSD1)					Prepared: 08/13/18 Analyzed: 08/14/18					
Mercury	9.64	1.9	mg/Kg wet	9.36		103	73.7-126.3	4.07	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209662 - SW-846 9045C										
LCS (B209662-BS1)				Prepared & Analyzed: 08/06/18						
pH	6.05		pH Units	6.00		101	90-110			
Duplicate (B209662-DUP1)				Source: 18H0260-05		Prepared & Analyzed: 08/06/18				
pH	7.4		pH Units		7.2			3.15	5	
Batch B210003 - SM21-22 2510B Modified										
Blank (B210003-BLK1)				Prepared & Analyzed: 08/10/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B210003-BS1)				Prepared & Analyzed: 08/10/18						
Specific conductance	190		µmhos/cm	192		101	90-110			
Duplicate (B210003-DUP1)				Source: 18H0260-01		Prepared & Analyzed: 08/10/18				
Specific conductance	29	2.0	µmhos/cm		21			31.2 *	21	R-02
Batch B210053 - SW-846 9014										
Blank (B210053-BLK1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B210053-BS1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	83.6-111			
Batch B210054 - % Solids										
Duplicate (B210054-DUP4)				Source: 18H0260-01		Prepared: 08/10/18 Analyzed: 08/12/18				
% Solids	96.2		% Wt		96.1			0.0969	20	
Batch B210158 - SW-846 9030A										
Blank (B210158-BLK1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B210158-BS1)				Prepared: 08/10/18 Analyzed: 08/13/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		94.6	54.9-121			

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BREAKDOWN REPORT

Lab Sample ID: S026258-PEM1 **Analyzed:** 08/14/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.59
Endrin [1] 2.35

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.48
Endrin [2] 3.32

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM2 **Analyzed:** 08/15/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.68
Endrin [1] 1.93

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.62
Endrin [2] 2.90

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM3 **Analyzed:** 08/15/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.09
Endrin [1] 1.67

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BREAKDOWN REPORT

Lab Sample ID: S026258-PEM3 Analyzed: 08/15/2018

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.37
Endrin [2]	2.45

BREAKDOWN REPORT

Lab Sample ID: S026258-PEM4 Analyzed: 08/15/2018

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.16
Endrin [1]	1.78

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.52
Endrin [2]	2.31

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B209900-BS1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B209900-BSD1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.21	4.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

Matrix Spike

Lab Sample ID: B209900-MS1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B209900-MSD1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.16	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B209967-BS1 Date(s) Analyzed: 08/15/2018 08/15/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.686	0.000	0.000	11.7	
	2	15.689	0.000	0.000	12.2	1.7
2,4,5-TP (Silvex)	1	15.069	0.000	0.000	11.1	
	2	14.843	0.000	0.000	11.4	3.6
2,4-D	1	13.248	0.000	0.000	114	
	2	13.122	0.000	0.000	116	5.3
2,4-DB	1	16.765	0.000	0.000	123	
	2	16.717	0.000	0.000	121	0.8
Dalapon	1	4.422	0.000	0.000	213	
	2	4.029	0.000	0.000	209	0.5
Dicamba	1	11.173	0.000	0.000	11.8	
	2	10.945	0.000	0.000	11.6	3.4
Dichloroprop	1	12.750	0.000	0.000	114	
	2	12.449	0.000	0.000	115	4.4
Dinoseb	1	17.507	0.000	0.000	14.3	
	2	16.992	0.000	0.000	14.4	2.8
MCPA	1	11.979	0.000	0.000	12200	
	2	11.771	0.000	0.000	10100	17.2
MCPD	1	11.655	0.000	0.000	14800	
	2	11.281	0.000	0.000	10700	33.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS Dup

Lab Sample ID: B209967-BSD1 Date(s) Analyzed: 08/15/2018 08/15/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.685	0.000	0.000	10.4	
	2	15.688	0.000	0.000	10.4	3.9
2,4,5-TP (Silvex)	1	15.070	0.000	0.000	10.8	
	2	14.842	0.000	0.000	11.2	1.8
2,4-D	1	13.248	0.000	0.000	109	
	2	13.121	0.000	0.000	110	0.0
2,4-DB	1	16.765	0.000	0.000	113	
	2	16.715	0.000	0.000	113	2.7
Dalapon	1	4.424	0.000	0.000	188	
	2	4.031	0.000	0.000	184	3.2
Dicamba	1	11.171	0.000	0.000	10.8	
	2	10.945	0.000	0.000	11.1	0.9
Dichloroprop	1	12.750	0.000	0.000	109	
	2	12.448	0.000	0.000	112	1.8
Dinoseb	1	17.504	0.000	0.000	10.3	
	2	16.991	0.000	0.000	10.3	3.0
MCPA	1	11.978	0.000	0.000	11000	
	2	11.769	0.000	0.000	9500	14.6
MCPD	1	11.656	0.000	0.000	14400	
	2	11.280	0.000	0.000	10100	32.4

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Matrix Spike***SW-846 8151A*Lab Sample ID: B209967-MS1 Date(s) Analyzed: 08/16/2018 08/16/2018Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.678	0.000	0.000	10.8	
	2	15.684	0.000	0.000	11.4	3.6
2,4,5-TP (Silvex)	1	15.065	0.000	0.000	11.7	
	2	14.841	0.000	0.000	12.2	1.7
2,4-D	1	13.242	0.000	0.000	121	
	2	13.120	0.000	0.000	119	0.8
2,4-DB	1	16.759	0.000	0.000	118	
	2	16.713	0.000	0.000	125	4.1
Dalapon	1	4.420	0.000	0.000	212	
	2	4.029	0.000	0.000	215	2.4
Dicamba	1	11.168	0.000	0.000	10.1	
	2	10.943	0.000	0.000	12.1	19.0
Dichloroprop	1	12.745	0.000	0.000	117	
	2	12.447	0.000	0.000	114	5.1
Dinoseb	1	17.500	0.000	0.000	25.0	
	2	16.989	0.000	0.000	24.7	1.2
MCPA	1	11.975	0.000	0.000	12400	
	2	11.769	0.000	0.000	9890	19.3
MCPP	1	11.651	0.000	0.000	16700	
	2	11.280	0.000	0.000	10900	43.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8151A

Lab Sample ID: B209967-MSD1 Date(s) Analyzed: 08/16/2018 08/16/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.676	0.000	0.000	11.3	
	2	15.684	0.000	0.000	11.6	5.3
2,4,5-TP (Silvex)	1	15.063	0.000	0.000	11.6	
	2	14.840	0.000	0.000	12.6	4.9
2,4-D	1	13.241	0.000	0.000	116	
	2	13.120	0.000	0.000	121	0.8
2,4-DB	1	16.759	0.000	0.000	125	
	2	16.715	0.000	0.000	126	3.1
Dalapon	1	4.422	0.000	0.000	200	
	2	4.030	0.000	0.000	205	2.5
Dicamba	1	11.168	0.000	0.000	10.4	
	2	10.943	0.000	0.000	12.1	19.0
Dichloroprop	1	12.744	0.000	0.000	119	
	2	12.447	0.000	0.000	116	3.4
Dinoseb	1	17.498	0.000	0.000	24.9	
	2	16.989	0.000	0.000	25.7	2.8
MCPA	1	11.974	0.000	0.000	11300	
	2	11.770	0.000	0.000	10000	9.5
MCPD	1	11.651	0.000	0.000	13300	
	2	11.279	0.000	0.000	10700	19.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210085-BS1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.586	7.557	7.617	0.090	
	2	7.528	7.499	7.559	0.077	15.6
4,4'-DDE	1	7.129	7.100	7.160	0.089	
	2	7.085	7.056	7.116	0.075	17.1
4,4'-DDT	1	7.804	7.775	7.835	0.090	
	2	7.773	7.744	7.804	0.073	22.0
Alachlor	1	6.539	6.510	6.570	0.087	
	2	6.236	6.206	6.266	0.081	7.1
Aldrin	1	6.448	6.418	6.478	0.084	
	2	6.307	6.277	6.337	0.071	16.8
alpha-BHC	1	5.690	5.661	5.721	0.069	
	2	5.566	5.536	5.596	0.064	7.5
alpha-Chlordane	1	7.079	7.049	7.109	0.082	
	2	6.958	6.929	6.989	0.076	7.6
beta-BHC	1	5.959	5.930	5.990	0.072	
	2	5.846	5.817	5.877	0.063	13.3
delta-BHC	1	6.084	6.055	6.115	0.077	
	2	6.042	6.013	6.073	0.070	9.5
Dieldrin	1	7.366	7.336	7.396	0.086	
	2	7.206	7.177	7.237	0.070	20.5
Endosulfan I	1	7.185	7.156	7.216	0.078	
	2	7.001	6.972	7.032	0.071	9.4
Endosulfan II	1	7.719	7.689	7.749	0.082	
	2	7.602	7.573	7.633	0.075	8.9
Endosulfan Sulfate	1	8.338	8.308	8.368	0.090	
	2	8.077	8.048	8.108	0.077	15.6
Endrin	1	7.545	7.517	7.577	0.083	
	2	7.438	7.409	7.469	0.073	12.8
Endrin Aldehyde	1	8.039	8.009	8.069	0.082	
	2	7.869	7.839	7.899	0.078	5.0
Endrin Ketone	1	8.517	8.487	8.547	0.087	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210085-BS1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.432	8.402	8.462	0.078	12.0
gamma-BHC (Lindane)	1	5.904	5.875	5.935	0.076	
	2	5.794	5.764	5.824	0.066	14.1
gamma-Chlordane	1	6.979	6.950	7.010	0.079	
	2	6.849	6.821	6.881	0.081	2.5
Heptachlor	1	6.232	6.203	6.263	0.080	
	2	6.085	6.055	6.115	0.070	13.3
Heptachlor Epoxide	1	6.888	6.859	6.919	0.081	
	2	6.713	6.684	6.744	0.073	10.4
Hexachlorobenzene	1	5.577	5.548	5.608	0.080	
	2	5.475	5.445	5.505	0.073	9.2
Methoxychlor	1	8.158	8.128	8.188	0.088	
	2	8.280	8.252	8.312	0.091	3.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210085-BSD1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.586	7.557	7.617	0.083	
	2	7.528	7.499	7.559	0.071	15.6
4,4'-DDE	1	7.128	7.100	7.160	0.082	
	2	7.085	7.056	7.116	0.070	15.8
4,4'-DDT	1	7.805	7.775	7.835	0.083	
	2	7.773	7.744	7.804	0.068	19.9
Alachlor	1	6.540	6.510	6.570	0.083	
	2	6.236	6.206	6.266	0.075	10.1
Aldrin	1	6.448	6.418	6.478	0.078	
	2	6.307	6.277	6.337	0.067	15.2
alpha-BHC	1	5.690	5.661	5.721	0.066	
	2	5.566	5.536	5.596	0.061	7.9
alpha-Chlordane	1	7.078	7.049	7.109	0.076	
	2	6.959	6.929	6.989	0.071	8.1
beta-BHC	1	5.960	5.930	5.990	0.069	
	2	5.846	5.817	5.877	0.060	14.0
delta-BHC	1	6.084	6.055	6.115	0.077	
	2	6.042	6.013	6.073	0.068	12.4
Dieldrin	1	7.366	7.336	7.396	0.079	
	2	7.206	7.177	7.237	0.066	17.9
Endosulfan I	1	7.185	7.156	7.216	0.072	
	2	7.001	6.972	7.032	0.066	8.7
Endosulfan II	1	7.718	7.689	7.749	0.076	
	2	7.602	7.573	7.633	0.070	8.2
Endosulfan Sulfate	1	8.338	8.308	8.368	0.083	
	2	8.077	8.048	8.108	0.071	15.6
Endrin	1	7.546	7.517	7.577	0.077	
	2	7.438	7.409	7.469	0.069	11.0
Endrin Aldehyde	1	8.038	8.009	8.069	0.075	
	2	7.869	7.839	7.899	0.073	2.7
Endrin Ketone	1	8.517	8.487	8.547	0.080	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8081B

Lab Sample ID: B210085-BSD1 Date(s) Analyzed: 08/14/2018 08/14/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.431	8.402	8.462	0.072	10.5
gamma-BHC (Lindane)	1	5.904	5.875	5.935	0.072	
	2	5.794	5.764	5.824	0.063	13.3
gamma-Chlordane	1	6.979	6.950	7.010	0.074	
	2	6.850	6.821	6.881	0.075	1.3
Heptachlor	1	6.233	6.203	6.263	0.075	
	2	6.085	6.055	6.115	0.068	9.8
Heptachlor Epoxide	1	6.889	6.859	6.919	0.075	
	2	6.714	6.684	6.744	0.069	8.3
Hexachlorobenzene	1	5.577	5.548	5.608	0.075	
	2	5.475	5.445	5.505	0.068	9.8
Methoxychlor	1	8.158	8.128	8.188	0.080	
	2	8.280	8.252	8.312	0.084	4.9

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
 - ND Not Detected
 - RL Reporting Limit is at the level of quantitation (LOQ)
 - DL Detection Limit is the lower limit of detection determined by the MDL study
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.
- DL-03 Elevated reporting limit due to matrix.
 - H-03 Sample received after recommended holding time was exceeded.
 - L-07A Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
 - L-14 Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
 - O-32 A dilution was performed as part of the standard analytical procedure.
 - R-02 Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - RL-08 Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
 - S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
 - V-05 Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
 - V-16 Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
 - V-20 Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
 - V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18A0260
 URL: www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Address: 101 WINDMILL STREET, WATERTOWN, MA
Phone: 617-601-1841
Project Location: Hudson, MA
Project Number: 12910106
Project Manager: Paul McKinley
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: PEC

7-Day Due Date: 10-Day
1-Day: **3-Day:**
2-Day: **4-Day:**
Format: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: rossell@conlab.com
Fax To #: 508-688-1614

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composites	Grab	Matrix Code	Pres Code
1	MP13	8/11/18	12:30	X	X	S	U
2	MP18	8/12/18	10:00	X	X	S	U
3	MP14	8/12/18	12:00	X	X	S	U
4	MP21	8/14/18	10:00	X	X	S	U
5	MP25	8/16/18	11:00	X	X	S	U

ANALYSIS REQUESTED	Reactivity, pH	Ignitability, PH	pest/herb	VOCs, nCPL, Metals	Reactive Sulfide	Reactive Cyanide
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X
	X	X	X	X	X	X

Comments: 20X rule for TCLP

Relinquished by (signature): [Signature]
Date/Time: 8/6/18 1700

Received by (signature): [Signature]
Date/Time: 8/6/18 1400

Relinquished by (signature): [Signature]
Date/Time: 8/6/18 1614

Received by (signature): [Signature]
Date/Time: 8/6/18

Relinquished by (signature): [Signature]
Date/Time: 8-6-18

Received by (signature): [Signature]

Special Requirements:
 MA MCP Required
 MCP Certification Exam Required
 CT RCP Required
 MCP Certification Exam Required
 MA State Day Requirement

Project Entry:
 Government Municipality MWRA WRTA Other
 Federal City School MBTA Chromatogram
 City Brownfield 21 J AIHA-LAP, LLC

con-test ANALYTICAL LABORATORY
 www.con-testlabs.com
 P.E. FROZ 866-96-1614

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB

Received By ESD Date 8-6-18 Time 16:14

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 4.3
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-	5	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	16	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: 8-6-18 @ 16:14
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

August 15, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H0264

Enclosed are results of analyses for samples received by the laboratory on August 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent 'K' and 'M'.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/15/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0264

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB/MW-21	18H0264-01	Ground Water		SW-846 6020B	
				SW-846 7470A	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
SB/MW-24	18H0264-02	Ground Water		SW-846 6020B	
				SW-846 7470A	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	
SB/MW-5	18H0264-03	Ground Water		SW-846 6020B	
				SW-846 7470A	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C**Qualifications:****V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

18H0264-01[SB/MW-21], 18H0264-02[SB/MW-24], 18H0264-03[SB/MW-5], B209714-BLK1, B209714-BS1, B209714-BSD1, S026009-CCV1

Diisopropyl Ether (DIPE)

18H0264-01[SB/MW-21], 18H0264-02[SB/MW-24], 18H0264-03[SB/MW-5], B209714-BLK1, B209714-BS1, B209714-BSD1, S026009-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18H0264-01[SB/MW-21], 18H0264-02[SB/MW-24], 18H0264-03[SB/MW-5], B209714-BLK1, B209714-BS1, B209714-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Acetone**

B209714-BS1, B209714-BSD1, S026009-CCV1

SW-846 8015C

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-21

Sampled: 8/3/2018 10:30

Sample ID: 18H0264-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-21

Sampled: 8/3/2018 10:30

Sample ID: 18H0264-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	89.8	70-130	8/7/18 19:23
Toluene-d8	98.0	70-130	8/7/18 19:23
4-Bromofluorobenzene	95.2	70-130	8/7/18 19:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-21

Sampled: 8/3/2018 10:30

Sample ID: 18H0264-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1221 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1232 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1242 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1248 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1254 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1260 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1262 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Aroclor-1268 [1]	ND	0.22	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:08	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.9	30-150					8/10/18 13:08	
Decachlorobiphenyl [2]		102	30-150					8/10/18 13:08	
Tetrachloro-m-xylene [1]		91.1	30-150					8/10/18 13:08	
Tetrachloro-m-xylene [2]		97.3	30-150					8/10/18 13:08	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-21

Sampled: 8/3/2018 10:30

Sample ID: 18H0264-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	ND	0.20	mg/L	1		SW-846 8015C	8/9/18	8/10/18 17:45	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	95.0		40-140					8/10/18 17:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-21

Sampled: 8/3/2018 10:30

Sample ID: 18H0264-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
							Prepared	Analyzed	
Arsenic	9.0	2.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Barium	53	50	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/10/18	8/10/18 17:54	EDF
Selenium	ND	25	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:54	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-24

Sampled: 8/2/2018 11:10

Sample ID: 18H0264-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	11	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-24

Sampled: 8/2/2018 11:10

Sample ID: 18H0264-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 19:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.6	70-130	8/7/18 19:50
Toluene-d8	97.0	70-130	8/7/18 19:50
4-Bromofluorobenzene	97.4	70-130	8/7/18 19:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-24

Sampled: 8/2/2018 11:10

Sample ID: 18H0264-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.3	30-150					8/10/18 13:21	
Decachlorobiphenyl [2]		93.5	30-150					8/10/18 13:21	
Tetrachloro-m-xylene [1]		76.8	30-150					8/10/18 13:21	
Tetrachloro-m-xylene [2]		82.6	30-150					8/10/18 13:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-24

Sampled: 8/2/2018 11:10

Sample ID: 18H0264-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	ND	0.20	mg/L	1		SW-846 8015C	8/9/18	8/10/18 17:26	KLB
Surrogates		% Recovery			Recovery Limits				
2-Fluorobiphenyl		62.9			40-140			8/10/18 17:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-24

Sampled: 8/2/2018 11:10

Sample ID: 18H0264-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Barium	ND	50	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/10/18	8/10/18 17:56	EDF
Selenium	ND	25	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 8:58	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-5

Sampled: 8/2/2018 14:20

Sample ID: 18H0264-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1	V-05	SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-5

Sampled: 8/2/2018 14:20

Sample ID: 18H0264-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/18	8/7/18 20:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.8	70-130	8/7/18 20:16
Toluene-d8	97.8	70-130	8/7/18 20:16
4-Bromofluorobenzene	94.8	70-130	8/7/18 20:16

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-5

Sampled: 8/2/2018 14:20

Sample ID: 18H0264-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/9/18	8/10/18 13:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.6	30-150					8/10/18 13:34	
Decachlorobiphenyl [2]		72.1	30-150					8/10/18 13:34	
Tetrachloro-m-xylene [1]		75.9	30-150					8/10/18 13:34	
Tetrachloro-m-xylene [2]		78.8	30-150					8/10/18 13:34	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-5

Sampled: 8/2/2018 14:20

Sample ID: 18H0264-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	ND	0.20	mg/L	1		SW-846 8015C	8/9/18	8/10/18 17:45	KLB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	65.1		40-140					8/10/18 17:45	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0264

Date Received: 8/6/2018

Field Sample #: SB/MW-5

Sampled: 8/2/2018 14:20

Sample ID: 18H0264-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Barium	ND	50	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/10/18	8/10/18 17:57	EDF
Selenium	ND	25	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020B	8/14/18	8/15/18 9:01	MJH

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Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6020B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0264-01 [SB/MW-21]	B210246	50.0	50.0	08/14/18
18H0264-02 [SB/MW-24]	B210246	50.0	50.0	08/14/18
18H0264-03 [SB/MW-5]	B210246	50.0	50.0	08/14/18

Prep Method: SW-846 7470A Dissolved-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0264-01 [SB/MW-21]	B210024	6.00	6.00	08/10/18
18H0264-02 [SB/MW-24]	B210024	6.00	6.00	08/10/18
18H0264-03 [SB/MW-5]	B210024	6.00	6.00	08/10/18

Prep Method: SW-846 3510C-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0264-01 [SB/MW-21]	B209924	1000	1.00	08/09/18
18H0264-02 [SB/MW-24]	B209924	1020	1.00	08/09/18
18H0264-03 [SB/MW-5]	B209924	1020	1.00	08/09/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0264-01 [SB/MW-21]	B209891	900	10.0	08/09/18
18H0264-02 [SB/MW-24]	B209891	1000	10.0	08/09/18
18H0264-03 [SB/MW-5]	B209891	1020	10.0	08/09/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0264-01 [SB/MW-21]	B209714	5	5.00	08/07/18
18H0264-02 [SB/MW-24]	B209714	5	5.00	08/07/18
18H0264-03 [SB/MW-5]	B209714	5	5.00	08/07/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209714 - SW-846 5035

Blank (B209714-BLK1)

Prepared & Analyzed: 08/07/18

Acetone	ND	10	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							V-05
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209714 - SW-846 5035

Blank (B209714-BLK1)

Prepared & Analyzed: 08/07/18

n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.3		µg/L	25.0		89.1	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		µg/L	25.0		95.8	70-130			

LCS (B209714-BS1)

Prepared & Analyzed: 08/07/18

Acetone	138	10	µg/L	100		138	40-160			L-14, V-20 †
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130			
Benzene	10.7	1.0	µg/L	10.0		107	70-130			
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130			
Bromochloromethane	10.9	1.0	µg/L	10.0		109	70-130			
Bromodichloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromoform	11.0	1.0	µg/L	10.0		110	70-130			
Bromomethane	10.8	2.0	µg/L	10.0		108	40-160			†
2-Butanone (MEK)	102	10	µg/L	100		102	40-160			†
n-Butylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
sec-Butylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
tert-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.08	0.50	µg/L	10.0		90.8	70-130			
Carbon Disulfide	12.7	5.0	µg/L	10.0		127	70-130			
Carbon Tetrachloride	10.2	1.0	µg/L	10.0		102	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130			
Chloroethane	10.9	2.0	µg/L	10.0		109	70-130			
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			
Chloromethane	8.69	2.0	µg/L	10.0		86.9	40-160			†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130			
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.87	2.0	µg/L	10.0		98.7	70-130			
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.0		110	70-130			
Dibromomethane	11.6	1.0	µg/L	10.0		116	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209714 - SW-846 5035										
LCS (B209714-BS1)										
Prepared & Analyzed: 08/07/18										
Dichlorodifluoromethane (Freon 12)	9.62	2.0	µg/L	10.0		96.2	40-160			V-05 †
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130			
1,2-Dichloroethane	9.47	1.0	µg/L	10.0		94.7	70-130			
1,1-Dichloroethylene	12.3	1.0	µg/L	10.0		123	70-130			
cis-1,2-Dichloroethylene	9.90	1.0	µg/L	10.0		99.0	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	70-130			
1,3-Dichloropropane	9.97	0.50	µg/L	10.0		99.7	70-130			
2,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130			
1,1-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130			
cis-1,3-Dichloropropene	10.3	0.40	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	10.4	0.40	µg/L	10.0		104	70-130			
Diethyl Ether	11.8	2.0	µg/L	10.0		118	70-130			
Diisopropyl Ether (DIPE)	8.68	0.50	µg/L	10.0		86.8	70-130			V-05
1,4-Dioxane	121	50	µg/L	100		121	40-160			V-16 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	11.6	0.60	µg/L	10.0		116	70-130			
2-Hexanone (MBK)	105	10	µg/L	100		105	40-160			†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117	70-130			
p-Isopropyltoluene (p-Cymene)	11.3	1.0	µg/L	10.0		113	70-130			
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	µg/L	10.0		109	70-130			
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130			
4-Methyl-2-pentanone (MIBK)	103	10	µg/L	100		103	40-160			†
Naphthalene	9.10	2.0	µg/L	10.0		91.0	70-130			
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Styrene	11.4	1.0	µg/L	10.0		114	70-130			
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115	70-130			
Tetrachloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Tetrahydrofuran	10.3	2.0	µg/L	10.0		103	70-130			
Toluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2,3-Trichlorobenzene	8.57	2.0	µg/L	10.0		85.7	70-130			
1,2,4-Trichlorobenzene	9.73	1.0	µg/L	10.0		97.3	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0		109	70-130			
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130			
1,2,3-Trichloropropane	8.87	2.0	µg/L	10.0		88.7	70-130			
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	10.8	2.0	µg/L	10.0		108	70-130			
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130			
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		µg/L	25.0		90.4	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209714 - SW-846 5035

LCS Dup (B209714-BSD1)

Prepared & Analyzed: 08/07/18

Acetone	142	10	µg/L	100		142	40-160	2.74	20	V-20 †
tert-Amyl Methyl Ether (TAME)	10.1	0.50	µg/L	10.0		101	70-130	0.591	20	
Benzene	10.5	1.0	µg/L	10.0		105	70-130	1.61	20	
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130	2.20	20	
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130	3.56	20	
Bromodichloromethane	10.4	1.0	µg/L	10.0		104	70-130	1.06	20	
Bromoform	11.1	1.0	µg/L	10.0		111	70-130	1.18	20	
Bromomethane	11.7	2.0	µg/L	10.0		117	40-160	8.26	20	†
2-Butanone (MEK)	103	10	µg/L	100		103	40-160	0.769	20	†
n-Butylbenzene	11.4	1.0	µg/L	10.0		114	70-130	2.09	20	
sec-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	3.26	20	
tert-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.37	20	
tert-Butyl Ethyl Ether (TBEE)	9.08	0.50	µg/L	10.0		90.8	70-130	0.00	20	
Carbon Disulfide	11.9	5.0	µg/L	10.0		119	70-130	6.34	20	
Carbon Tetrachloride	9.67	1.0	µg/L	10.0		96.7	70-130	4.94	20	
Chlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	3.98	20	
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	0.729	20	
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130	2.70	20	
Chloroform	10.7	2.0	µg/L	10.0		107	70-130	1.76	20	
Chloromethane	8.94	2.0	µg/L	10.0		89.4	40-160	2.84	20	†
2-Chlorotoluene	10.1	1.0	µg/L	10.0		101	70-130	3.98	20	
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	1.14	20	
1,2-Dibromo-3-chloropropane (DBCP)	10.5	2.0	µg/L	10.0		105	70-130	6.00	20	
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.0		111	70-130	0.542	20	
Dibromomethane	11.4	1.0	µg/L	10.0		114	70-130	1.39	20	
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	1.57	20	
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.31	20	
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	1.15	20	
Dichlorodifluoromethane (Freon 12)	9.04	2.0	µg/L	10.0		90.4	40-160	6.22	20	V-05 †
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130	3.28	20	
1,2-Dichloroethane	9.57	1.0	µg/L	10.0		95.7	70-130	1.05	20	
1,1-Dichloroethylene	12.3	1.0	µg/L	10.0		123	70-130	0.487	20	
cis-1,2-Dichloroethylene	9.65	1.0	µg/L	10.0		96.5	70-130	2.56	20	
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	0.295	20	
1,2-Dichloropropane	10.1	1.0	µg/L	10.0		101	70-130	2.54	20	
1,3-Dichloropropane	9.80	0.50	µg/L	10.0		98.0	70-130	1.72	20	
2,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130	5.01	20	
1,1-Dichloropropene	9.98	0.50	µg/L	10.0		99.8	70-130	2.18	20	
cis-1,3-Dichloropropene	10.2	0.40	µg/L	10.0		102	70-130	0.777	20	
trans-1,3-Dichloropropene	10.7	0.40	µg/L	10.0		107	70-130	2.55	20	
Diethyl Ether	12.6	2.0	µg/L	10.0		126	70-130	6.41	20	
Diisopropyl Ether (DIPE)	8.51	0.50	µg/L	10.0		85.1	70-130	1.98	20	V-05
1,4-Dioxane	128	50	µg/L	100		128	40-160	5.32	20	V-16 †
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	1.42	20	
Hexachlorobutadiene	10.8	0.60	µg/L	10.0		108	70-130	7.31	20	
2-Hexanone (MBK)	106	10	µg/L	100		106	40-160	1.59	20	†
Isopropylbenzene (Cumene)	11.4	1.0	µg/L	10.0		114	70-130	2.43	20	
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130	1.34	20	
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	µg/L	10.0		112	70-130	2.17	20	
Methylene Chloride	9.20	5.0	µg/L	10.0		92.0	70-130	16.9	20	
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	40-160	1.47	20	†
Naphthalene	9.09	2.0	µg/L	10.0		90.9	70-130	0.110	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209714 - SW-846 5035										
LCS Dup (B209714-BSD1)										
Prepared & Analyzed: 08/07/18										
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.39	20	
Styrene	11.1	1.0	µg/L	10.0		111	70-130	2.57	20	
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130	1.80	20	
1,1,2,2-Tetrachloroethane	11.6	0.50	µg/L	10.0		116	70-130	0.949	20	
Tetrachloroethylene	11.2	1.0	µg/L	10.0		112	70-130	2.73	20	
Tetrahydrofuran	10.1	2.0	µg/L	10.0		101	70-130	1.96	20	
Toluene	10.5	1.0	µg/L	10.0		105	70-130	2.16	20	
1,2,3-Trichlorobenzene	8.89	2.0	µg/L	10.0		88.9	70-130	3.67	20	
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130	4.09	20	
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	0.382	20	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	1.87	20	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.644	20	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	0.0887	20	
1,2,3-Trichloropropane	9.03	2.0	µg/L	10.0		90.3	70-130	1.79	20	
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.286	20	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.744	20	
Vinyl Chloride	10.7	2.0	µg/L	10.0		107	70-130	1.67	20	
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130	3.85	20	
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130	1.56	20	
Surrogate: 1,2-Dichloroethane-d4	22.7		µg/L	25.0		90.9	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.5	70-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209891 - SW-846 3510C

Blank (B209891-BLK1)

Prepared & Analyzed: 08/09/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.77		µg/L	2.00		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.6	30-150			

Blank (B209891-BLK2)

Prepared: 08/09/18 Analyzed: 08/10/18

Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Aroclor-1262	ND	0.040	µg/L							
Aroclor-1262 [2C]	ND	0.040	µg/L							
Aroclor-1268	ND	0.040	µg/L							
Aroclor-1268 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	2.16		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.68		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.68		µg/L	2.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.45		µg/L	2.00		72.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B209891 - SW-846 3510C

LCS (B209891-BS1)

Prepared & Analyzed: 08/09/18

Aroclor-1016	0.42	0.20	µg/L	0.500		84.8	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.7	40-140			
Surrogate: Decachlorobiphenyl	1.74		µg/L	2.00		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.81		µg/L	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.5	30-150			

LCS Dup (B209891-BSD1)

Prepared & Analyzed: 08/09/18

Aroclor-1016	0.42	0.20	µg/L	0.500		83.1	40-140	2.01	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.8	40-140	1.63	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.4	40-140	0.947	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.8	40-140	0.950	20	
Surrogate: Decachlorobiphenyl	1.75		µg/L	2.00		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.83		µg/L	2.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.46		µg/L	2.00		72.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		77.8	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209924 - SW-846 3510C										
Blank (B209924-BLK1)										
					Prepared: 08/09/18 Analyzed: 08/10/18					
Diesel Range Organics	ND	0.20	mg/L							
Surrogate: 2-Fluorobiphenyl	0.0819		mg/L	0.100		81.9	40-140			
LCS (B209924-BS1)										
					Prepared: 08/09/18 Analyzed: 08/10/18					
Diesel Range Organics	0.655	0.20	mg/L	1.00		65.5	40-140			
Surrogate: 2-Fluorobiphenyl	0.0648		mg/L	0.100		64.8	40-140			
LCS Dup (B209924-BSD1)										
					Prepared: 08/09/18 Analyzed: 08/10/18					
Diesel Range Organics	0.717	0.20	mg/L	1.00		71.7	40-140	9.00		
Surrogate: 2-Fluorobiphenyl	0.0719		mg/L	0.100		71.9	40-140			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210024 - SW-846 7470A Dissolved										
Blank (B210024-BLK1)				Prepared & Analyzed: 08/10/18						
Mercury	ND	0.00010	mg/L							
LCS (B210024-BS1)				Prepared & Analyzed: 08/10/18						
Mercury	0.00199	0.00010	mg/L	0.00200		99.6	80-120			
LCS Dup (B210024-BSD1)				Prepared & Analyzed: 08/10/18						
Mercury	0.00202	0.00010	mg/L	0.00200		101	80-120	1.25	20	
Duplicate (B210024-DUP1)				Source: 18H0264-01			Prepared & Analyzed: 08/10/18			
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B210024-MS1)				Source: 18H0264-01			Prepared & Analyzed: 08/10/18			
Mercury	0.00198	0.00010	mg/L	0.00200	ND	99.1	75-125			
Batch B210246 - SW-846 3005A Dissolved										
Blank (B210246-BLK1)				Prepared: 08/14/18 Analyzed: 08/15/18						
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
LCS (B210246-BS1)				Prepared: 08/14/18 Analyzed: 08/15/18						
Arsenic	506	4.0	µg/L	500		101	80-120			
Barium	510	100	µg/L	500		102	80-120			
Cadmium	507	5.0	µg/L	500		101	80-120			
Chromium	522	10	µg/L	500		104	80-120			
Lead	503	10	µg/L	500		101	80-120			
Selenium	496	50	µg/L	500		99.1	80-120			
Silver	501	5.0	µg/L	500		100	80-120			
LCS Dup (B210246-BSD1)				Prepared: 08/14/18 Analyzed: 08/15/18						
Arsenic	509	4.0	µg/L	500		102	80-120	0.661	20	
Barium	516	100	µg/L	500		103	80-120	1.11	20	
Cadmium	512	5.0	µg/L	500		102	80-120	1.01	20	
Chromium	520	10	µg/L	500		104	80-120	0.289	20	
Lead	504	10	µg/L	500		101	80-120	0.313	20	
Selenium	500	50	µg/L	500		100	80-120	0.857	20	
Silver	504	5.0	µg/L	500		101	80-120	0.506	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B209891-BS1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.48	13.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B209891-BSD1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.47	11.2
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020B in Water	
Arsenic	CT,NH,NY,NC,ME,VA
Barium	MA,NY,CT,NC,NH,ME,VA
Cadmium	CT,NH,NY,NC,ME,VA
Chromium	CT,NH,NY,NC,ME,VA
Lead	CT,NH,NY,NC,ME,VA
Selenium	CT,NH,NY,NC,ME,VA
Silver	CT,NC,NH,NY,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8015C in Water	
Diesel Range Organics	NY,VA,NH,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME


CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



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 Email: info@contestlabs.com

Doc # 381 Rev 1_03242017

 39 Spruce Street

 East Longmeadow, MA 01028

Page 1 of 1

7-Day 10-Day

 Due Date:

1-Day 3-Day

 2-Day 4-Day

Format: PDF EXCEL

 Other:

CLP Like Data Pkg Required:

 Email To: pbzeman@con-test.com

 Fax To #: vnb.com

Con-Test Work Order #	Client Sample ID / Description	Receiving Date/Time	Ending Date/Time	Compos	Grab	Matrix Code	Field Filtered	Lab to Filter
1	SB/MW-21	4/3/18	10:30	X	GW	U		
2	SB/MW-24	4/2/18	11:10	X	U	U		
3	SB/MW-5	4/2/18	14:20	X	U	U		

ANALYSIS REQUESTED:

 Metals via EPA

 Disolved PCBs

 PCBs via EPA 8082A

 Volatile Organics via

 MD 8060L

 TPH-Diesel Range

 (E100/9470)

 Organics

1 Matrix Codes:

 GW = Ground Water

 WW = Waste Water

 DW = Drinking Water

 A = Air

 S = Soil

 SL = Sludge

 SOL = Solid

 O = Other (please define)

2 Preservation Codes:

 I = Iced

 H = HCL

 M = Methanol

 N = Nitric Acid

 S = Sulfuric Acid

 B = Sodium Bisulfate

 X = Sodium Hydroxide

 T = Sodium Thiosulfate

 O = Other (please define)

3 Container Codes:

 A = Amber Glass

 G = Glass

 P = Plastic

 ST = Sterile

 V = Vial

 S = Summa Canister

 T = Tedlar Bag

 O = Other (please define)

PCB ONLY

 Soxhlet

 Non Soxhlet

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by (signature): *[Signature]* Date/Time: 8/6/18 1406

 Received by (signature): *[Signature]* Date/Time: 8/6/18 1406

 Relinquished by (signature): *[Signature]* Date/Time: 8/6/18 1614

 Received by (signature): *[Signature]* Date/Time: 8-6-18 16:14

Project Entity:

 Government

 Federal

 City

 Municipality

 21 J

 Brownfield

 MWRA

 School

 MBTA

 WRTA

 Chromatogram

 AIHA-LAP, LLC

 Other:

con-test ANALYTICAL LABORATORY

 www.con-test.com

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VAB

Received By ESD Date 2-6-18 Time 16:14

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 2.9, 2.9
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? E MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? T Acid DH2 Base _____

Viols	#	Containers	#		#		#
Unp-		1 Liter Amb.	<u>12</u>	1 Liter Plastic		16 oz Amb.	
HCL-	<u>4</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Viols	#	Containers	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

August 24, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Hudson, MA
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H0744

Enclosed are results of analyses for samples received by the laboratory on August 15, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 8/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0744

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hudson, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-5	18H0744-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP-12	18H0744-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 08/17/18

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0744-01[MP-5]

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**Endosulfan II**

18H0744-01[MP-5]

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl [2C]**

18H0744-01[MP-5]

SW-846 8082A

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H0744-01[MP-5]

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18H0744-02[MP-12]

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl [2C]**

18H0744-01[MP-5]

SW-846 8260C

Qualifications:**L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Acetone**

B210537-BS1, B210537-BSD1

Methylene Chloride

B210537-BS1, B210537-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 12)**

18H0744-01[MP-5], 18H0744-02[MP-12], B210537-BLK1, B210537-BS1, B210537-BSD1, S026378-CCV1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18H0744-01[MP-5], 18H0744-02[MP-12], B210537-BLK1, B210537-BS1, B210537-BSD1

Tetrahydrofuran

18H0744-01[MP-5], 18H0744-02[MP-12], B210537-BLK1, B210537-BS1, B210537-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H0744-01[MP-5], 18H0744-02[MP-12], B210537-BLK1, B210537-BS1, B210537-BSD1, S026378-CCV1

Dichlorodifluoromethane (Freon 12)

18H0744-01[MP-5], 18H0744-02[MP-12], B210537-BLK1, B210537-BS1, B210537-BSD1, S026378-CCV1

SW-846 8270D**Qualifications:****V-34**

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4-Chloroaniline**

18H0744-01[MP-5], 18H0744-02[MP-12], B210411-BLK1, B210411-BS1, B210411-BSD1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18H0744-01[MP-5], 18H0744-02[MP-12]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1	V-34	SW-846 8260C	8/17/18	8/17/18 15:36	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Chlorodibromomethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Chloroethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0072	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Diethyl Ether	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Diisopropyl Ether (DIPE)	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,4-Dioxane	ND	0.072	mg/Kg dry	1	V-16	SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Methylene Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1	V-16	SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 15:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.0	70-130	8/17/18 15:36
Toluene-d8	101	70-130	8/17/18 15:36
4-Bromofluorobenzene	99.6	70-130	8/17/18 15:36

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Acenaphthylene	0.44	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Anthracene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Benzo(a)anthracene	1.6	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Benzo(a)pyrene	2.3	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Benzo(b)fluoranthene	3.0	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Benzo(g,h,i)perylene	2.6	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Benzo(k)fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1	V-34	SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Chrysene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Dibenz(a,h)anthracene	0.35	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Fluoranthene	2.4	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Hexachlorobenzene	1.7	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Indeno(1,2,3-cd)pyrene	2.3	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Phenanthrene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Pyrene	2.6	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:00	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		58.8	30-130					8/17/18 17:00	
Phenol-d6		59.9	30-130					8/17/18 17:00	
Nitrobenzene-d5		55.7	30-130					8/17/18 17:00	
2-Fluorobiphenyl		68.3	30-130					8/17/18 17:00	
2,4,6-Tribromophenol		50.8	30-130					8/17/18 17:00	
p-Terphenyl-d14		72.0	30-130					8/17/18 17:00	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Aldrin [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
alpha-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
beta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
delta-BHC [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
gamma-BHC (Lindane) [1]	ND	0.021	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Chlordane [1]	ND	0.21	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
4,4'-DDD [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
4,4'-DDE [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
4,4'-DDT [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Dieldrin [1]	ND	0.042	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endosulfan I [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endosulfan II [1]	0.13	0.084	mg/Kg dry	10	P-02	SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endosulfan sulfate [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endrin [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endrin aldehyde [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Endrin ketone [1]	ND	0.084	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Heptachlor [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Heptachlor epoxide [1]	ND	0.053	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Hexachlorobenzene [1]	2.3	0.063	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Methoxychlor [1]	ND	0.53	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Toxaphene [1]	ND	1.1	mg/Kg dry	10		SW-846 8081B	8/16/18	8/22/18 0:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	69.2		30-150			8/22/18 0:45			
Decachlorobiphenyl [2]	302 *		30-150		S-12	8/22/18 0:45			
Tetrachloro-m-xylene [1]	92.1		30-150			8/22/18 0:45			
Tetrachloro-m-xylene [2]	82.0		30-150			8/22/18 0:45			

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Sample Flags: DL-03

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1221 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1232 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1242 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1248 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1254 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1260 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1262 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Aroclor-1268 [1]	ND	0.41	mg/Kg dry	20		SW-846 8082A	8/21/18	8/22/18 15:39	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	107		30-150			8/22/18 15:39			
Decachlorobiphenyl [2]	431 *		30-150		S-02	8/22/18 15:39			
Tetrachloro-m-xylene [1]	83.5		30-150			8/22/18 15:39			
Tetrachloro-m-xylene [2]	91.4		30-150			8/22/18 15:39			

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
Dalapon [1]	ND	66	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
Dinoseb [1]	ND	13	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 7:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		79.7	30-150					8/18/18 7:47	
2,4-Dichlorophenylacetic acid [2]		89.8	30-150					8/18/18 7:47	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	470	44	mg/Kg dry	5		SW-846 8100 Modified	8/16/18	8/17/18 20:06	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		95.3	40-140					8/17/18 20:06	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Arsenic	5.1	1.8	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Barium	28	1.8	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Cadmium	0.21	0.18	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Chromium	12	0.35	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Lead	36	0.53	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Mercury	0.080	0.027	mg/Kg dry	1		SW-846 7471B	8/22/18	8/23/18 11:06	EJB
Nickel	8.7	0.35	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Vanadium	13	0.70	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW
Zinc	25	0.70	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:09	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-5

Sampled: 8/8/2018 13:40

Sample ID: 18H0744-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/16/18	8/16/18 15:30	LED
pH @24°C	5.4		pH Units	1	H-03	SW-846 9045C	8/15/18	8/15/18 19:36	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/17/18	8/20/18 14:30	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	8/17/18	8/20/18 13:30	DJM
Specific conductance	23	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/22/18	8/22/18 13:30	EC
% Solids	93.8		% Wt	1		SM 2540G	8/22/18	8/22/18 17:08	DMP

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Bromomethane	ND	0.0078	mg/Kg dry	1	V-34	SW-846 8260C	8/17/18	8/17/18 16:04	MFF
2-Butanone (MEK)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Carbon Disulfide	ND	0.0047	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Chlorodibromomethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Chloroethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Chloroform	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Chloromethane	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2-Dibromoethane (EDB)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0078	mg/Kg dry	1	V-05, V-34	SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1-Dichloroethylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,3-Dichloropropane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
cis-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
trans-1,3-Dichloropropene	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Diethyl Ether	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Diisopropyl Ether (DIPE)	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,4-Dioxane	ND	0.078	mg/Kg dry	1	V-16	SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Methylene Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Naphthalene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.00078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Tetrahydrofuran	ND	0.0078	mg/Kg dry	1	V-16	SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
Vinyl Chloride	ND	0.0078	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
m+p Xylene	ND	0.0031	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C	8/17/18	8/17/18 16:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.3	70-130	8/17/18 16:04
Toluene-d8	101	70-130	8/17/18 16:04
4-Bromofluorobenzene	101	70-130	8/17/18 16:04

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Benzo(a)pyrene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Benzo(b)fluoranthene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Benzo(g,h,i)perylene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
1,4-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/16/18	8/17/18 17:23	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		67.2	30-130					8/17/18 17:23	
Phenol-d6		67.1	30-130					8/17/18 17:23	
Nitrobenzene-d5		64.0	30-130					8/17/18 17:23	
2-Fluorobiphenyl		77.0	30-130					8/17/18 17:23	
2,4,6-Tribromophenol		58.1	30-130					8/17/18 17:23	
p-Terphenyl-d14		83.7	30-130					8/17/18 17:23	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Aldrin [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
alpha-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
beta-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
delta-BHC [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
gamma-BHC (Lindane) [1]	ND	0.0020	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Chlordane [1]	ND	0.020	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
4,4'-DDD [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
4,4'-DDE [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
4,4'-DDT [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Dieldrin [1]	ND	0.0039	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endosulfan I [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endosulfan II [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endosulfan sulfate [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endrin [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endrin aldehyde [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Endrin ketone [1]	ND	0.0079	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Heptachlor [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Heptachlor epoxide [1]	ND	0.0049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Hexachlorobenzene [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Methoxychlor [1]	ND	0.049	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Toxaphene [1]	ND	0.099	mg/Kg dry	1		SW-846 8081B	8/16/18	8/22/18 1:12	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.5	30-150					8/22/18 1:12	
Decachlorobiphenyl [2]		83.8	30-150					8/22/18 1:12	
Tetrachloro-m-xylene [1]		80.2	30-150					8/22/18 1:12	
Tetrachloro-m-xylene [2]		73.8	30-150					8/22/18 1:12	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/21/18	8/22/18 10:36	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.6	30-150					8/22/18 10:36	
Decachlorobiphenyl [2]		97.2	30-150					8/22/18 10:36	
Tetrachloro-m-xylene [1]		85.5	30-150					8/22/18 10:36	
Tetrachloro-m-xylene [2]		89.5	30-150					8/22/18 10:36	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
2,4-DB [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
2,4,5-TP (Silvex) [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
2,4,5-T [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
Dalapon [1]	ND	64	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
Dicamba [1]	ND	2.6	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
Dichloroprop [1]	ND	26	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
Dinoseb [1]	ND	13	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
MCPA [1]	ND	2600	µg/kg dry	1		SW-846 8151A	8/16/18	8/18/18 8:27	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	100	30-150						8/18/18 8:27	
2,4-Dichlorophenylacetic acid [2]	92.1	30-150						8/18/18 8:27	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Field Sample #: MP-12

Sampled: 8/8/2018 14:00

Sample ID: 18H0744-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	110	8.6	mg/Kg dry	1		SW-846 8100 Modified	8/16/18	8/24/18 9:07	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		110	40-140					8/24/18 9:07	

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Sampled: 8/8/2018 14:00

Field Sample #: MP-12

Sample ID: 18H0744-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Arsenic	16	1.7	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Barium	18	1.7	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Beryllium	ND	0.17	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Cadmium	0.50	0.17	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Chromium	13	0.34	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Lead	6.5	0.52	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Mercury	ND	0.025	mg/Kg dry	1		SW-846 7471B	8/22/18	8/23/18 11:08	EJB
Nickel	11	0.34	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Selenium	ND	3.4	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Vanadium	13	0.69	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW
Zinc	18	0.69	mg/Kg dry	1		SW-846 6010D	8/21/18	8/22/18 20:14	QNW

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Project Location: Hudson, MA

Sample Description:

Work Order: 18H0744

Date Received: 8/15/2018

Sampled: 8/8/2018 14:00

Field Sample #: MP-12

Sample ID: 18H0744-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/16/18	8/16/18 15:30	LED
pH @24.7°C	7.1		pH Units	1	H-03	SW-846 9045C	8/15/18	8/15/18 19:36	AIA
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/17/18	8/20/18 14:30	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/17/18	8/20/18 13:30	DJM
Specific conductance	37	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/16/18	8/16/18 15:15	EC
% Solids	96.5		% Wt	1		SM 2540G	8/22/18	8/22/18 17:08	DMP

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H0744-01 [MP-5]	B210835	08/22/18
18H0744-02 [MP-12]	B210835	08/22/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0744-02 [MP-12]	B210437	1.00	08/16/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0744-01 [MP-5]	B210844	1.00	08/22/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0744-01 [MP-5]	B210494	50.0	08/16/18
18H0744-02 [MP-12]	B210494	50.0	08/16/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210742	1.52	50.0	08/21/18
18H0744-02 [MP-12]	B210742	1.50	50.0	08/21/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210790	0.600	50.0	08/22/18
18H0744-02 [MP-12]	B210790	0.611	50.0	08/22/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210479	10.1	10.0	08/16/18
18H0744-02 [MP-12]	B210479	10.5	10.0	08/16/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210704	10.5	10.0	08/21/18
18H0744-02 [MP-12]	B210704	10.1	10.0	08/21/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210410	30.1	1.00	08/16/18
18H0744-02 [MP-12]	B210410	30.0	1.00	08/16/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210413	20.3	5.00	08/16/18
18H0744-02 [MP-12]	B210413	20.2	5.00	08/16/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210537	7.35	10.0	08/17/18
18H0744-02 [MP-12]	B210537	6.62	10.0	08/17/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210411	30.1	1.00	08/16/18
18H0744-02 [MP-12]	B210411	30.0	1.00	08/16/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210569	25.8	250	08/17/18
18H0744-02 [MP-12]	B210569	25.6	250	08/17/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0744-01 [MP-5]	B210659	25.8	250	08/17/18
18H0744-02 [MP-12]	B210659	25.6	250	08/17/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18H0744-01 [MP-5]	B210409	20.0	08/15/18
18H0744-02 [MP-12]	B210409	20.0	08/15/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210537 - SW-846 5035

Blank (B210537-BLK1)

Prepared & Analyzed: 08/17/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-05, V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210537 - SW-846 5035

Blank (B210537-BLK1)

Prepared & Analyzed: 08/17/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0480		mg/Kg wet	0.0500		96.1	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			

LCS (B210537-BS1)

Prepared & Analyzed: 08/17/18

Acetone	0.333	0.10	mg/Kg wet	0.200		166 *	40-160			L-02 †
tert-Amyl Methyl Ether (TAME)	0.0184	0.0010	mg/Kg wet	0.0200		92.1	70-130			
Benzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Bromobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromoform	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromomethane	0.0141	0.010	mg/Kg wet	0.0200		70.7	40-160			V-34 †
2-Butanone (MEK)	0.293	0.040	mg/Kg wet	0.200		146	40-160			L-14 †
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130			
sec-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
tert-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0184	0.0010	mg/Kg wet	0.0200		91.8	70-130			
Carbon Disulfide	0.0212	0.0060	mg/Kg wet	0.0200		106	70-130			
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorodibromomethane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130			
Chloroethane	0.0197	0.010	mg/Kg wet	0.0200		98.4	70-130			
Chloroform	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130			
Chloromethane	0.0166	0.010	mg/Kg wet	0.0200		82.8	40-160			†
2-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
4-Chlorotoluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
1,3-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,4-Dichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210537 - SW-846 5035										
LCS (B210537-BS1)										
					Prepared & Analyzed: 08/17/18					
Dichlorodifluoromethane (Freon 12)	0.0147	0.010	mg/Kg wet	0.0200		73.5	40-160			V-05, V-34 †
1,1-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130			
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0187	0.0010	mg/Kg wet	0.0200		93.3	70-130			
2,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1-Dichloropropene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
cis-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Diethyl Ether	0.0206	0.010	mg/Kg wet	0.0200		103	70-130			
Diisopropyl Ether (DIPE)	0.0191	0.0010	mg/Kg wet	0.0200		95.4	70-130			
1,4-Dioxane	0.191	0.10	mg/Kg wet	0.200		95.7	40-160			V-16 †
Ethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Hexachlorobutadiene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
2-Hexanone (MBK)	0.240	0.020	mg/Kg wet	0.200		120	40-160			†
Isopropylbenzene (Cumene)	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
p-Isopropyltoluene (p-Cymene)	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.5	70-130			
Methylene Chloride	0.0264	0.010	mg/Kg wet	0.0200		132 *	70-130			L-02
4-Methyl-2-pentanone (MIBK)	0.225	0.020	mg/Kg wet	0.200		113	40-160			†
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		93.8	70-130			
n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130			
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0212	0.010	mg/Kg wet	0.0200		106	70-130			V-16
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2,4-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,1,1-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
Trichloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0178	0.010	mg/Kg wet	0.0200		89.2	70-130			
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,3,5-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Vinyl Chloride	0.0168	0.010	mg/Kg wet	0.0200		84.2	70-130			
m+p Xylene	0.0394	0.0040	mg/Kg wet	0.0400		98.6	70-130			
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0495		mg/Kg wet	0.0500		99.0	70-130			
Surrogate: Toluene-d8	0.0502		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210537 - SW-846 5035										
LCS Dup (B210537-BSD1)										
Prepared & Analyzed: 08/17/18										
Acetone	0.393	0.10	mg/Kg wet	0.200		197 *	40-160	16.7	20	L-02 †
tert-Amyl Methyl Ether (TAME)	0.0170	0.0010	mg/Kg wet	0.0200		85.1	70-130	7.90	20	
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130	4.80	20	
Bromobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130	5.35	20	
Bromochloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	9.39	20	
Bromodichloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130	10.6	20	
Bromoform	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	0.365	20	
Bromomethane	0.0141	0.010	mg/Kg wet	0.0200		70.6	40-160	0.142	20	V-34 †
2-Butanone (MEK)	0.317	0.040	mg/Kg wet	0.200		158	40-160	7.92	20	L-14 †
n-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130	11.6	20	
sec-Butylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	16.1	20	
tert-Butylbenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130	10.5	20	
tert-Butyl Ethyl Ether (TBEE)	0.0181	0.0010	mg/Kg wet	0.0200		90.4	70-130	1.54	20	
Carbon Disulfide	0.0191	0.0060	mg/Kg wet	0.0200		95.4	70-130	10.3	20	
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.76	20	
Chlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	6.82	20	
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		96.2	70-130	6.73	20	
Chloroethane	0.0192	0.010	mg/Kg wet	0.0200		95.8	70-130	2.68	20	
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		97.8	70-130	5.66	20	
Chloromethane	0.0160	0.010	mg/Kg wet	0.0200		79.9	40-160	3.56	20	†
2-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	5.57	20	
4-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	5.98	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0168	0.0020	mg/Kg wet	0.0200		84.0	70-130	11.6	20	
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.2	70-130	8.19	20	
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	4.63	20	
1,2-Dichlorobenzene	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	13.7	20	
1,3-Dichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130	6.95	20	
1,4-Dichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.2	70-130	7.13	20	
Dichlorodifluoromethane (Freon 12)	0.0136	0.010	mg/Kg wet	0.0200		67.9	40-160	7.92	20	L-14, V-05, V-34 †
1,1-Dichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	9.63	20	
1,2-Dichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.19	20	
1,1-Dichloroethylene	0.0192	0.0040	mg/Kg wet	0.0200		96.0	70-130	8.10	20	
cis-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	5.54	20	
trans-1,2-Dichloroethylene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	0.320	20	
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.24	20	
1,3-Dichloropropane	0.0185	0.0010	mg/Kg wet	0.0200		92.3	70-130	1.08	20	
2,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	9.51	20	
1,1-Dichloropropene	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130	9.64	20	
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.5	70-130	1.45	20	
trans-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.3	70-130	9.98	20	
Diethyl Ether	0.0197	0.010	mg/Kg wet	0.0200		98.3	70-130	4.57	20	
Diisopropyl Ether (DIPE)	0.0182	0.0010	mg/Kg wet	0.0200		90.9	70-130	4.83	20	
1,4-Dioxane	0.187	0.10	mg/Kg wet	0.200		93.6	40-160	2.18	20	V-16 †
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	3.56	20	
Hexachlorobutadiene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	10.1	20	
2-Hexanone (MBK)	0.248	0.020	mg/Kg wet	0.200		124	40-160	3.56	20	†
Isopropylbenzene (Cumene)	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	6.03	20	
p-Isopropyltoluene (p-Cymene)	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	7.07	20	
Methyl tert-Butyl Ether (MTBE)	0.0192	0.0040	mg/Kg wet	0.0200		95.8	70-130	1.76	20	
Methylene Chloride	0.0267	0.010	mg/Kg wet	0.0200		134 *	70-130	1.05	20	L-02
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		106	40-160	5.58	20	†
Naphthalene	0.0168	0.0040	mg/Kg wet	0.0200		84.2	70-130	10.8	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210537 - SW-846 5035										
LCS Dup (B210537-BSD1)										
Prepared & Analyzed: 08/17/18										
n-Propylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	5.99	20	
Styrene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	6.10	20	
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	5.50	20	
1,1,2,2-Tetrachloroethane	0.0179	0.0010	mg/Kg wet	0.0200		89.4	70-130	8.36	20	
Tetrachloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	8.24	20	
Tetrahydrofuran	0.0197	0.010	mg/Kg wet	0.0200		98.4	70-130	7.62	20	V-16
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130	4.51	20	
1,2,3-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	3.92	20	
1,2,4-Trichlorobenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130	10.4	20	
1,1,1-Trichloroethane	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	2.66	20	
1,1,2-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	0.00	20	
Trichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	4.26	20	
Trichlorofluoromethane (Freon 11)	0.0167	0.010	mg/Kg wet	0.0200		83.5	70-130	6.60	20	
1,2,3-Trichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	11.5	20	
1,2,4-Trimethylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	9.44	20	
1,3,5-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	5.30	20	
Vinyl Chloride	0.0162	0.010	mg/Kg wet	0.0200		81.2	70-130	3.63	20	
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.0	70-130	6.87	20	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130	2.78	20	
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: Toluene-d8	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.6	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210411 - SW-846 3546

Blank (B210411-BLK1)

Prepared: 08/16/18 Analyzed: 08/17/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							V-34
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210411 - SW-846 3546										
Blank (B210411-BLK1)										
Prepared: 08/16/18 Analyzed: 08/17/18										
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.55		mg/Kg wet	6.67		68.2	30-130			
Surrogate: Phenol-d6	4.71		mg/Kg wet	6.67		70.6	30-130			
Surrogate: Nitrobenzene-d5	2.23		mg/Kg wet	3.33		66.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: 2,4,6-Tribromophenol	4.48		mg/Kg wet	6.67		67.2	30-130			
Surrogate: p-Terphenyl-d14	3.03		mg/Kg wet	3.33		90.8	30-130			
LCS (B210411-BS1)										
Prepared: 08/16/18 Analyzed: 08/17/18										
Acenaphthene	0.992	0.17	mg/Kg wet	1.67		59.5	40-140			
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
Acetophenone	1.10	0.34	mg/Kg wet	1.67		66.0	40-140			
Aniline	0.857	0.34	mg/Kg wet	1.67		51.4	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140			
Benzo(a)anthracene	1.15	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Benzo(g,h,i)perylene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140			
Bis(2-chloroethoxy)methane	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
Bis(2-chloroethyl)ether	1.21	0.34	mg/Kg wet	1.67		72.4	40-140			
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
4-Bromophenylphenylether	1.17	0.34	mg/Kg wet	1.67		70.2	40-140			
Butylbenzylphthalate	1.17	0.34	mg/Kg wet	1.67		70.5	40-140			
4-Chloroaniline	0.926	0.66	mg/Kg wet	1.67		55.6	15-140			V-34 †
2-Chloronaphthalene	1.04	0.34	mg/Kg wet	1.67		62.2	40-140			
2-Chlorophenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130			
Chrysene	1.15	0.17	mg/Kg wet	1.67		68.9	40-140			
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Dibenzofuran	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.67		77.0	40-140			
1,2-Dichlorobenzene	0.992	0.34	mg/Kg wet	1.67		59.5	40-140			
1,3-Dichlorobenzene	0.937	0.34	mg/Kg wet	1.67		56.2	40-140			
1,4-Dichlorobenzene	0.984	0.34	mg/Kg wet	1.67		59.0	40-140			
3,3-Dichlorobenzidine	1.02	0.17	mg/Kg wet	1.67		61.1	40-140			
2,4-Dichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130			
Diethylphthalate	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
2,4-Dimethylphenol	1.01	0.34	mg/Kg wet	1.67		60.4	30-130			
Dimethylphthalate	1.13	0.34	mg/Kg wet	1.67		68.1	40-140			
2,4-Dinitrophenol	0.983	0.66	mg/Kg wet	1.67		59.0	15-140			†
2,4-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.1	40-140			
2,6-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140			
Di-n-octylphthalate	1.24	0.34	mg/Kg wet	1.67		74.4	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.18	0.34	mg/Kg wet	1.67		70.9	40-140			
Fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluorene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210411 - SW-846 3546

LCS (B210411-BS1)

Prepared: 08/16/18 Analyzed: 08/17/18

Hexachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140			
Hexachlorobutadiene	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
Hexachloroethane	0.987	0.34	mg/Kg wet	1.67		59.2	40-140			
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Isophorone	1.10	0.34	mg/Kg wet	1.67		66.1	40-140			
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
2-Methylphenol	0.856	0.34	mg/Kg wet	1.67		51.3	30-130			
3/4-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.6	30-130			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140			
2-Nitrophenol	1.15	0.34	mg/Kg wet	1.67		69.0	30-130			
4-Nitrophenol	0.976	0.66	mg/Kg wet	1.67		58.6	15-140			†
Pentachlorophenol	0.924	0.34	mg/Kg wet	1.67		55.4	30-130			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Phenol	1.07	0.34	mg/Kg wet	1.67		64.5	15-140			†
Pyrene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Pyridine	0.732	0.34	mg/Kg wet	1.67		43.9	30-140			†
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.3	40-140			
2,4,5-Trichlorophenol	1.02	0.34	mg/Kg wet	1.67		61.0	30-130			
2,4,6-Trichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.7	30-130			
Surrogate: 2-Fluorophenol	4.73		mg/Kg wet	6.67		71.0	30-130			
Surrogate: Phenol-d6	4.89		mg/Kg wet	6.67		73.3	30-130			
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.39		mg/Kg wet	3.33		71.7	30-130			
Surrogate: 2,4,6-Tribromophenol	4.80		mg/Kg wet	6.67		71.9	30-130			
Surrogate: p-Terphenyl-d14	2.74		mg/Kg wet	3.33		82.2	30-130			

LCS Dup (B210411-BSD1)

Prepared: 08/16/18 Analyzed: 08/17/18

Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	6.06	30	
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	6.70	30	
Acetophenone	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	4.39	30	
Aniline	0.922	0.34	mg/Kg wet	1.67		55.3	40-140	7.27	30	
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	4.61	30	
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	4.74	30	
Benzo(a)pyrene	1.27	0.17	mg/Kg wet	1.67		75.9	40-140	6.86	30	
Benzo(b)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	6.56	30	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	6.61	30	
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	5.74	30	
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	6.62	30	
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1	40-140	6.06	30	
Bis(2-chloroisopropyl)ether	1.34	0.34	mg/Kg wet	1.67		80.6	40-140	6.88	30	
Bis(2-Ethylhexyl)phthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	3.52	30	
4-Bromophenylphenylether	1.23	0.34	mg/Kg wet	1.67		73.9	40-140	5.19	30	
Butylbenzylphthalate	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	6.19	30	
4-Chloroaniline	0.867	0.66	mg/Kg wet	1.67		52.0	15-140	6.54	30	V-34 †
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	2.79	30	
2-Chlorophenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130	5.92	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	6.71	30	
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.3	40-140	3.43	30	
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.5	40-140	5.00	30	
Di-n-butylphthalate	1.34	0.34	mg/Kg wet	1.67		80.2	40-140	4.07	30	
1,2-Dichlorobenzene	1.08	0.34	mg/Kg wet	1.67		65.0	40-140	8.74	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210411 - SW-846 3546										
LCS Dup (B210411-BSD1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
1,3-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.8	40-140	7.79	30	
1,4-Dichlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	8.13	30	
3,3-Dichlorobenzidine	0.998	0.17	mg/Kg wet	1.67		59.9	40-140	2.05	30	
2,4-Dichlorophenol	1.18	0.34	mg/Kg wet	1.67		71.1	30-130	8.39	30	
Diethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.7	40-140	5.20	30	
2,4-Dimethylphenol	0.999	0.34	mg/Kg wet	1.67		60.0	30-130	0.764	30	
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	4.73	30	
2,4-Dinitrophenol	1.10	0.66	mg/Kg wet	1.67		65.7	15-140	10.8	30	†
2,4-Dinitrotoluene	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	7.43	30	
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.3	40-140	6.73	30	
Di-n-octylphthalate	1.30	0.34	mg/Kg wet	1.67		78.1	40-140	4.88	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	3.55	30	
Fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	4.76	30	
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	6.06	30	
Hexachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	5.52	30	
Hexachlorobutadiene	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	6.85	30	
Hexachloroethane	1.09	0.34	mg/Kg wet	1.67		65.1	40-140	9.52	30	
Indeno(1,2,3-cd)pyrene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140	10.0	30	
Isophorone	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	6.24	30	
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	5.66	30	
2-Methylphenol	0.866	0.34	mg/Kg wet	1.67		52.0	30-130	1.24	30	
3/4-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.3	30-130	2.32	30	
Naphthalene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140	8.56	30	
Nitrobenzene	1.11	0.34	mg/Kg wet	1.67		66.7	40-140	7.82	30	
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.3	30-130	10.1	30	
4-Nitrophenol	1.10	0.66	mg/Kg wet	1.67		65.9	15-140	11.8	30	†
Pentachlorophenol	0.891	0.34	mg/Kg wet	1.67		53.5	30-130	3.64	30	
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		74.7	40-140	3.76	30	
Phenol	1.15	0.34	mg/Kg wet	1.67		69.2	15-140	7.00	30	†
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	5.12	30	
Pyridine	0.747	0.34	mg/Kg wet	1.67		44.8	30-140	1.98	30	†
1,2,4-Trichlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.2	40-140	8.85	30	
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.5	30-130	5.51	30	
2,4,6-Trichlorophenol	1.09	0.34	mg/Kg wet	1.67		65.7	30-130	4.68	30	
Surrogate: 2-Fluorophenol	5.02		mg/Kg wet	6.67		75.2	30-130			
Surrogate: Phenol-d6	5.10		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.33		75.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.00		mg/Kg wet	6.67		75.1	30-130			
Surrogate: p-Terphenyl-d14	2.86		mg/Kg wet	3.33		85.9	30-130			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210479 - SW-846 3546										
Blank (B210479-BLK1)										
Prepared: 08/16/18 Analyzed: 08/17/18										
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.193		mg/Kg wet	0.200		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159		mg/Kg wet	0.200		79.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210479 - SW-846 3546										
LCS (B210479-BS1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
alpha-Chlordane	0.096	0.0050	mg/Kg wet	0.100		96.2	40-140			
alpha-Chlordane [2C]	0.091	0.0050	mg/Kg wet	0.100		90.7	40-140			
gamma-Chlordane	0.094	0.0050	mg/Kg wet	0.100		94.0	40-140			
gamma-Chlordane [2C]	0.092	0.0050	mg/Kg wet	0.100		92.0	40-140			
Alachlor	0.085	0.020	mg/Kg wet	0.100		84.7	40-140			
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		95.4	40-140			
Aldrin	0.094	0.0050	mg/Kg wet	0.100		94.2	40-140			
Aldrin [2C]	0.083	0.0050	mg/Kg wet	0.100		83.5	40-140			
alpha-BHC	0.068	0.0050	mg/Kg wet	0.100		68.3	40-140			
alpha-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		66.5	40-140			
beta-BHC	0.074	0.0050	mg/Kg wet	0.100		74.4	40-140			
beta-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		72.8	40-140			
delta-BHC	0.067	0.0050	mg/Kg wet	0.100		66.8	40-140			
delta-BHC [2C]	0.068	0.0050	mg/Kg wet	0.100		67.7	40-140			
gamma-BHC (Lindane)	0.076	0.0020	mg/Kg wet	0.100		76.0	40-140			
gamma-BHC (Lindane) [2C]	0.072	0.0020	mg/Kg wet	0.100		71.6	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		107	40-140			
4,4'-DDE [2C]	0.092	0.0040	mg/Kg wet	0.100		92.4	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
Dieldrin	0.098	0.0040	mg/Kg wet	0.100		98.0	40-140			
Dieldrin [2C]	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140			
Endosulfan I	0.094	0.0050	mg/Kg wet	0.100		93.5	40-140			
Endosulfan I [2C]	0.088	0.0050	mg/Kg wet	0.100		88.4	40-140			
Endosulfan II	0.096	0.0080	mg/Kg wet	0.100		95.6	40-140			
Endosulfan II [2C]	0.092	0.0080	mg/Kg wet	0.100		92.4	40-140			
Endosulfan Sulfate	0.083	0.0080	mg/Kg wet	0.100		82.7	40-140			
Endosulfan Sulfate [2C]	0.077	0.0080	mg/Kg wet	0.100		77.3	40-140			
Endrin	0.095	0.0080	mg/Kg wet	0.100		95.2	40-140			
Endrin [2C]	0.094	0.0080	mg/Kg wet	0.100		94.1	40-140			
Endrin Aldehyde	0.10	0.0080	mg/Kg wet	0.100		103	40-140			
Endrin Aldehyde [2C]	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140			
Endrin Ketone	0.096	0.0080	mg/Kg wet	0.100		96.3	40-140			
Endrin Ketone [2C]	0.090	0.0080	mg/Kg wet	0.100		89.7	40-140			
Heptachlor	0.070	0.0050	mg/Kg wet	0.100		69.7	40-140			
Heptachlor [2C]	0.094	0.0050	mg/Kg wet	0.100		94.1	40-140			
Heptachlor Epoxide	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140			
Heptachlor Epoxide [2C]	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140			
Hexachlorobenzene	0.091	0.0060	mg/Kg wet	0.100		90.9	40-140			
Hexachlorobenzene [2C]	0.083	0.0060	mg/Kg wet	0.100		82.5	40-140			
Methoxychlor	0.099	0.050	mg/Kg wet	0.100		99.4	40-140			
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.100		106	40-140			
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg wet	0.200		85.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210479 - SW-846 3546										
LCS Dup (B210479-BSD1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
alpha-Chlordane	0.098	0.0050	mg/Kg wet	0.100		98.5	40-140	2.33	30	
alpha-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140	2.50	30	
gamma-Chlordane	0.096	0.0050	mg/Kg wet	0.100		96.4	40-140	2.57	30	
gamma-Chlordane [2C]	0.095	0.0050	mg/Kg wet	0.100		94.7	40-140	2.91	30	
Alachlor	0.086	0.020	mg/Kg wet	0.100		85.8	40-140	1.28	30	
Alachlor [2C]	0.097	0.020	mg/Kg wet	0.100		97.1	40-140	1.73	30	
Aldrin	0.095	0.0050	mg/Kg wet	0.100		95.2	40-140	1.10	30	
Aldrin [2C]	0.085	0.0050	mg/Kg wet	0.100		84.9	40-140	1.63	30	
alpha-BHC	0.068	0.0050	mg/Kg wet	0.100		68.4	40-140	0.241	30	
alpha-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		67.4	40-140	1.22	30	
beta-BHC	0.077	0.0050	mg/Kg wet	0.100		76.8	40-140	3.25	30	
beta-BHC [2C]	0.075	0.0050	mg/Kg wet	0.100		75.3	40-140	3.33	30	
delta-BHC	0.056	0.0050	mg/Kg wet	0.100		56.1	40-140	17.5	30	
delta-BHC [2C]	0.058	0.0050	mg/Kg wet	0.100		57.8	40-140	15.7	30	
gamma-BHC (Lindane)	0.076	0.0020	mg/Kg wet	0.100		76.1	40-140	0.147	30	
gamma-BHC (Lindane) [2C]	0.072	0.0020	mg/Kg wet	0.100		72.3	40-140	0.972	30	
4,4'-DDD	0.11	0.0040	mg/Kg wet	0.100		105	40-140	1.80	30	
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		104	40-140	2.27	30	
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.100		111	40-140	4.35	30	
4,4'-DDE [2C]	0.096	0.0040	mg/Kg wet	0.100		96.3	40-140	4.12	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140	0.683	30	
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		103	40-140	1.55	30	
Dieldrin	0.10	0.0040	mg/Kg wet	0.100		100	40-140	2.32	30	
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		86.6	40-140	2.49	30	
Endosulfan I	0.096	0.0050	mg/Kg wet	0.100		95.6	40-140	2.15	30	
Endosulfan I [2C]	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	2.43	30	
Endosulfan II	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	1.82	30	
Endosulfan II [2C]	0.095	0.0080	mg/Kg wet	0.100		95.0	40-140	2.82	30	
Endosulfan Sulfate	0.067	0.0080	mg/Kg wet	0.100		67.4	40-140	20.4	30	
Endosulfan Sulfate [2C]	0.065	0.0080	mg/Kg wet	0.100		65.3	40-140	16.9	30	
Endrin	0.098	0.0080	mg/Kg wet	0.100		97.6	40-140	2.49	30	
Endrin [2C]	0.097	0.0080	mg/Kg wet	0.100		96.6	40-140	2.62	30	
Endrin Aldehyde	0.11	0.0080	mg/Kg wet	0.100		106	40-140	3.72	30	
Endrin Aldehyde [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140	3.44	30	
Endrin Ketone	0.099	0.0080	mg/Kg wet	0.100		99.3	40-140	3.02	30	
Endrin Ketone [2C]	0.092	0.0080	mg/Kg wet	0.100		91.7	40-140	2.27	30	
Heptachlor	0.070	0.0050	mg/Kg wet	0.100		70.4	40-140	1.13	30	
Heptachlor [2C]	0.095	0.0050	mg/Kg wet	0.100		95.3	40-140	1.26	30	
Heptachlor Epoxide	0.095	0.0050	mg/Kg wet	0.100		95.3	40-140	2.37	30	
Heptachlor Epoxide [2C]	0.091	0.0050	mg/Kg wet	0.100		91.3	40-140	2.22	30	
Hexachlorobenzene	0.092	0.0060	mg/Kg wet	0.100		91.7	40-140	0.914	30	
Hexachlorobenzene [2C]	0.084	0.0060	mg/Kg wet	0.100		83.7	40-140	1.34	30	
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		101	40-140	2.02	30	
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.100		111	40-140	4.72	30	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.171		mg/Kg wet	0.200		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210704 - SW-846 3546										
Blank (B210704-BLK1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.238		mg/Kg wet	0.198		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.244		mg/Kg wet	0.198		123	30-150			
Surrogate: Tetrachloro-m-xylene	0.222		mg/Kg wet	0.198		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		mg/Kg wet	0.198		114	30-150			
LCS (B210704-BS1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Aroclor-1016	0.22	0.020	mg/Kg wet	0.198		110	40-140			
Aroclor-1016 [2C]	0.23	0.020	mg/Kg wet	0.198		115	40-140			
Aroclor-1260	0.21	0.020	mg/Kg wet	0.198		105	40-140			
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.198		108	40-140			
Surrogate: Decachlorobiphenyl	0.239		mg/Kg wet	0.198		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.242		mg/Kg wet	0.198		122	30-150			
Surrogate: Tetrachloro-m-xylene	0.219		mg/Kg wet	0.198		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		mg/Kg wet	0.198		112	30-150			
LCS Dup (B210704-BSD1)										
Prepared: 08/21/18 Analyzed: 08/22/18										
Aroclor-1016	0.21	0.020	mg/Kg wet	0.198		108	40-140	2.25	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.198		109	40-140	5.11	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.198		104	40-140	1.11	30	
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.198		106	40-140	1.84	30	
Surrogate: Decachlorobiphenyl	0.235		mg/Kg wet	0.198		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.238		mg/Kg wet	0.198		120	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.198		99.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.200		mg/Kg wet	0.198		101	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210413 - SW-846 8151

Blank (B210413-BLK1)

Prepared: 08/16/18 Analyzed: 08/17/18

2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	74.5		µg/kg wet	95.2		78.2	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	72.8		µg/kg wet	95.2		76.5	30-150			

LCS (B210413-BS1)

Prepared: 08/16/18 Analyzed: 08/17/18

2,4-D	98.2	25	µg/kg wet	125		78.6	40-140			
2,4-D [2C]	98.2	25	µg/kg wet	125		78.6	40-140			
2,4-DB	97.8	25	µg/kg wet	125		78.2	40-140			
2,4-DB [2C]	98.8	25	µg/kg wet	125		79.1	40-140			
2,4,5-TP (Silvex)	9.45	2.5	µg/kg wet	12.5		75.6	40-140			
2,4,5-TP (Silvex) [2C]	9.49	2.5	µg/kg wet	12.5		75.9	40-140			
2,4,5-T	9.52	2.5	µg/kg wet	12.5		76.2	40-140			
2,4,5-T [2C]	11.1	2.5	µg/kg wet	12.5		89.1	40-140			
Dalapon	156	62	µg/kg wet	312		50.0	40-140			
Dalapon [2C]	140	62	µg/kg wet	312		44.7	40-140			
Dicamba	9.84	2.5	µg/kg wet	12.5		78.7	40-140			
Dicamba [2C]	9.56	2.5	µg/kg wet	12.5		76.4	40-140			
Dichloroprop	97.5	25	µg/kg wet	125		78.0	40-140			
Dichloroprop [2C]	98.9	25	µg/kg wet	125		79.1	40-140			
Dinoseb	10.8	12	µg/kg wet	62.5		17.3	0-42.4			
Dinoseb [2C]	11.5	12	µg/kg wet	62.5		18.4	0-41.1			
MCPA	8800	2500	µg/kg wet	12500		70.4	40-140			
MCPA [2C]	8600	2500	µg/kg wet	12500		68.8	40-140			
MCPP	12700	2500	µg/kg wet	12500		102	40-140			
MCPP [2C]	9290	2500	µg/kg wet	12500		74.3	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	78.6		µg/kg wet	100		78.6	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	74.5		µg/kg wet	100		74.5	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210413 - SW-846 8151										
LCS Dup (B210413-BSD1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
2,4-D	99.5	25	µg/kg wet	125		79.6	40-140	1.32	30	
2,4-D [2C]	99.0	25	µg/kg wet	125		79.2	40-140	0.779	30	
2,4-DB	111	25	µg/kg wet	125		88.7	40-140	12.6	30	
2,4-DB [2C]	108	25	µg/kg wet	125		86.0	40-140	8.42	30	
2,4,5-TP (Silvex)	9.37	2.5	µg/kg wet	12.5		75.0	40-140	0.861	30	
2,4,5-TP (Silvex) [2C]	9.79	2.5	µg/kg wet	12.5		78.4	40-140	3.18	30	
2,4,5-T	10.2	2.5	µg/kg wet	12.5		81.9	40-140	7.27	30	
2,4,5-T [2C]	10.7	2.5	µg/kg wet	12.5		85.6	40-140	3.93	30	
Dalapon	142	62	µg/kg wet	312		45.5	40-140	9.31	30	
Dalapon [2C]	125	62	µg/kg wet	312		40.1	40-140	11.0	30	
Dicamba	12.5	2.5	µg/kg wet	12.5		100	40-140	24.2	30	
Dicamba [2C]	9.79	2.5	µg/kg wet	12.5		78.3	40-140	2.45	30	
Dichloroprop	98.8	25	µg/kg wet	125		79.0	40-140	1.32	30	
Dichloroprop [2C]	101	25	µg/kg wet	125		81.0	40-140	2.36	30	
Dinoseb	10.3	12	µg/kg wet	62.5		16.5	0-42.4	5.18	30	
Dinoseb [2C]	10.4	12	µg/kg wet	62.5		16.7	0-41.1	9.99	30	
MCPA	8810	2500	µg/kg wet	12500		70.5	40-140	0.0801	30	
MCPA [2C]	8810	2500	µg/kg wet	12500		70.5	40-140	2.48	30	
MCPP	12900	2500	µg/kg wet	12500		103	40-140	1.27	30	
MCPP [2C]	9220	2500	µg/kg wet	12500		73.8	40-140	0.761	30	
Surrogate: 2,4-Dichlorophenylacetic acid	91.0		µg/kg wet	100		91.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	76.1		µg/kg wet	100		76.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210410 - SW-846 3546										
Blank (B210410-BLK1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	3.00		mg/Kg wet	3.33		90.1	40-140			
LCS (B210410-BS1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
TPH (C9-C36)	29.9	8.3	mg/Kg wet	33.3		89.6	40-140			
Surrogate: 2-Fluorobiphenyl	2.75		mg/Kg wet	3.33		82.5	40-140			
LCS Dup (B210410-BSD1)										
					Prepared: 08/16/18 Analyzed: 08/17/18					
TPH (C9-C36)	30.1	8.3	mg/Kg wet	33.3		90.4	40-140	0.904	30	
Surrogate: 2-Fluorobiphenyl	2.93		mg/Kg wet	3.33		88.0	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210742 - SW-846 3050B

Blank (B210742-BLK1)

Prepared: 08/21/18 Analyzed: 08/22/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B210742-BS1)

Prepared: 08/21/18 Analyzed: 08/22/18

Antimony	59.9	5.0	mg/Kg wet	75.5		79.3	3.8-196			
Arsenic	156	5.0	mg/Kg wet	161		97.1	83.2-116.8			
Barium	273	5.0	mg/Kg wet	260		105	82.7-117.3			
Beryllium	100	0.50	mg/Kg wet	97.6		103	83.4-116.8			
Cadmium	204	0.50	mg/Kg wet	211		96.7	83.4-116.6			
Chromium	133	1.0	mg/Kg wet	136		98.0	82.4-117.6			
Lead	111	1.5	mg/Kg wet	111		99.6	83-117.1			
Nickel	89.3	1.0	mg/Kg wet	91.9		97.2	82.9-117.5			
Selenium	184	10	mg/Kg wet	191		96.4	79.6-120.9			
Silver	41.7	1.0	mg/Kg wet	43.3		96.2	79.9-119.9			
Thallium	155	5.0	mg/Kg wet	156		99.1	81.4-119.2			
Vanadium	52.4	2.0	mg/Kg wet	56.7		92.4	79-121.2			
Zinc	199	2.0	mg/Kg wet	199		100	81.4-119.1			

LCS Dup (B210742-BSD1)

Prepared: 08/21/18 Analyzed: 08/22/18

Antimony	64.1	5.0	mg/Kg wet	75.5		84.9	3.8-196	6.78	30	
Arsenic	159	5.0	mg/Kg wet	161		98.9	83.2-116.8	1.80	30	
Barium	262	5.0	mg/Kg wet	260		101	82.7-117.3	4.03	30	
Beryllium	102	0.50	mg/Kg wet	97.6		105	83.4-116.8	2.02	30	
Cadmium	209	0.50	mg/Kg wet	211		98.9	83.4-116.6	2.28	30	
Chromium	138	0.99	mg/Kg wet	136		101	82.4-117.6	3.31	30	
Lead	109	1.5	mg/Kg wet	111		97.9	83-117.1	1.73	30	
Nickel	90.9	0.99	mg/Kg wet	91.9		98.9	82.9-117.5	1.77	30	
Selenium	187	9.9	mg/Kg wet	191		97.7	79.6-120.9	1.27	30	
Silver	43.5	0.99	mg/Kg wet	43.3		101	79.9-119.9	4.37	30	
Thallium	162	5.0	mg/Kg wet	156		104	81.4-119.2	4.53	30	
Vanadium	54.7	2.0	mg/Kg wet	56.7		96.5	79-121.2	4.43	30	
Zinc	201	2.0	mg/Kg wet	199		101	81.4-119.1	0.715	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210742 - SW-846 3050B										
MRL Check (B210742-MRL1)					Prepared: 08/21/18 Analyzed: 08/22/18					
Lead	0.543	0.50	mg/Kg wet	0.503		108	80-120			
Batch B210790 - SW-846 7471										
Blank (B210790-BLK1)					Prepared: 08/22/18 Analyzed: 08/23/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B210790-BS1)					Prepared: 08/22/18 Analyzed: 08/23/18					
Mercury	11.4	1.9	mg/Kg wet	9.36		122	73.7-126.3			
LCS Dup (B210790-BSD1)					Prepared: 08/22/18 Analyzed: 08/23/18					
Mercury	11.6	1.9	mg/Kg wet	9.36		124	73.7-126.3	1.75	30	
Duplicate (B210790-DUP1)					Source: 18H0744-01 Prepared: 08/22/18 Analyzed: 08/23/18					
Mercury	0.0747	0.026	mg/Kg dry		0.0800			6.80	35	
Matrix Spike (B210790-MS1)					Source: 18H0744-01 Prepared: 08/22/18 Analyzed: 08/23/18					
Mercury	0.236	0.026	mg/Kg dry	0.175	0.0800	89.6	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210409 - SW-846 9045C										
LCS (B210409-BS1)				Prepared & Analyzed: 08/15/18						
pH	6.05		pH Units	6.00		101	90-110			
LCS (B210409-BS2)				Prepared & Analyzed: 08/15/18						
pH	6.05		pH Units	6.00		101	90-110			
LCS (B210409-BS3)				Prepared & Analyzed: 08/15/18						
pH	6.02		pH Units	6.00		100	90-110			
Batch B210437 - SM21-22 2510B Modified										
Blank (B210437-BLK1)				Prepared & Analyzed: 08/16/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B210437-BS1)				Prepared & Analyzed: 08/16/18						
Specific conductance	200		µmhos/cm	192		105	90-110			
Batch B210569 - SW-846 9014										
Blank (B210569-BLK1)				Prepared: 08/17/18 Analyzed: 08/20/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B210569-BS1)				Prepared: 08/17/18 Analyzed: 08/20/18						
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	83.6-111			
Batch B210659 - SW-846 9030A										
Blank (B210659-BLK1)				Prepared: 08/17/18 Analyzed: 08/20/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B210659-BS1)				Prepared: 08/17/18 Analyzed: 08/20/18						
Reactive Sulfide	14	2.0	mg/Kg	14.8		91.9	54.9-121			
Batch B210835 - % Solids										
Duplicate (B210835-DUP1)			Source: 18H0744-01		Prepared & Analyzed: 08/22/18					
% Solids	93.2		% Wt			93.8		0.669	20	
Batch B210844 - SM21-22 2510B Modified										
Blank (B210844-BLK1)				Prepared & Analyzed: 08/22/18						
Specific conductance	ND	2.0	µmhos/cm							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B210844 - SM21-22 2510B Modified

LCS (B210844-BS1)

Prepared & Analyzed: 08/22/18

Specific conductance	200	2.0	µmhos/cm	192		103	90-110			
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Duplicate (B210844-DUP1)

Source: 18H0744-01

Prepared & Analyzed: 08/22/18

Specific conductance	24	2.0	µmhos/cm		23			6.41	21	
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BREAKDOWN REPORT

Lab Sample ID: S026406-PEM1 **Analyzed:** 08/17/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.28
Endrin [1]	3.23

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.35
Endrin [2]	4.29

BREAKDOWN REPORT

Lab Sample ID: S026406-PEM2 **Analyzed:** 08/18/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.32
Endrin [1]	2.50

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.94
Endrin [2]	3.21

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM1 **Analyzed:** 08/21/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.76
Endrin [1]	1.98

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BREAKDOWN REPORT

Lab Sample ID: S026512-PEM1 **Analyzed:** 08/21/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.81
Endrin [2] 2.00

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM2 **Analyzed:** 08/21/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.84
Endrin [1] 1.52

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.84
Endrin [2] 1.70

BREAKDOWN REPORT

Lab Sample ID: S026512-PEM3 **Analyzed:** 08/22/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 1.14
Endrin [1] 1.36

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 1.24
Endrin [2] 1.55

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

MP-5

SW-846 8081B

Lab Sample ID: 18H0744-01 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	7.458	7.428	7.488	0.13	
	2	7.499	7.462	7.522	0.24	59.5
Hexachlorobenzene	1	5.410	5.380	5.440	2.3	
	2	5.406	5.376	5.436	2.0	14.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B210413-BS1 Date(s) Analyzed: 08/17/2018 08/17/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.666	0.000	0.000	9.52	
	2	15.684	0.000	0.000	11.1	15.5
2,4,5-TP (Silvex)	1	15.051	0.000	0.000	9.45	
	2	14.837	0.000	0.000	9.49	0.1
2,4-D	1	13.230	0.000	0.000	98.2	
	2	13.118	0.000	0.000	98.2	0.2
2,4-DB	1	16.753	0.000	0.000	97.8	
	2	16.714	0.000	0.000	98.8	0.8
Dalapon	1	4.419	0.000	0.000	156	
	2	4.032	0.000	0.000	140	13.3
Dicamba	1	11.155	0.000	0.000	9.84	
	2	10.940	0.000	0.000	9.56	2.5
Dichloroprop	1	12.731	0.000	0.000	97.5	
	2	12.441	0.000	0.000	98.9	0.9
Dinoseb	1	17.492	0.000	0.000	10.8	
	2	16.988	0.000	0.000	11.5	4.4
MCPA	1	11.960	0.000	0.000	8800	
	2	11.763	0.000	0.000	8600	2.3
MCPD	1	11.637	0.000	0.000	12700	
	2	11.272	0.000	0.000	9290	33.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8151A

LCS Dup

Lab Sample ID: B210413-BSD1 Date(s) Analyzed: 08/17/2018 08/17/2018
 Instrument ID (1): ECD 8 Instrument ID (2): ECD 8
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.668	0.000	0.000	10.2	
	2	15.685	0.000	0.000	10.7	6.8
2,4,5-TP (Silvex)	1	15.049	0.000	0.000	9.37	
	2	14.837	0.000	0.000	9.79	4.1
2,4-D	1	13.230	0.000	0.000	99.5	
	2	13.117	0.000	0.000	99.0	1.0
2,4-DB	1	16.753	0.000	0.000	111	
	2	16.714	0.000	0.000	108	1.8
Dalapon	1	4.415	0.000	0.000	142	
	2	4.026	0.000	0.000	125	11.3
Dicamba	1	11.156	0.000	0.000	12.5	
	2	10.939	0.000	0.000	9.79	28.2
Dichloroprop	1	12.730	0.000	0.000	98.8	
	2	12.442	0.000	0.000	101	2.0
Dinoseb	1	17.488	0.000	0.000	10.3	
	2	16.985	0.000	0.000	10.4	3.9
MCPA	1	11.959	0.000	0.000	8810	
	2	11.762	0.000	0.000	8810	0.1
MCPD	1	11.636	0.000	0.000	12900	
	2	11.272	0.000	0.000	9220	34.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210479-BS1 Date(s) Analyzed: 08/17/2018 08/17/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.575	7.546	7.606	0.10	
	2	7.510	7.482	7.542	0.10	0.0
4,4'-DDE	1	7.118	7.089	7.149	0.11	
	2	7.068	7.039	7.099	0.092	17.8
4,4'-DDT	1	7.793	7.765	7.825	0.10	
	2	7.755	7.727	7.787	0.10	0.0
Alachlor	1	6.530	6.501	6.561	0.085	
	2	6.221	6.193	6.253	0.095	11.1
Aldrin	1	6.439	6.410	6.470	0.094	
	2	6.293	6.263	6.323	0.083	12.4
alpha-BHC	1	5.683	5.654	5.714	0.068	
	2	5.554	5.525	5.585	0.067	1.5
alpha-Chlordane	1	7.068	7.040	7.100	0.096	
	2	6.942	6.913	6.973	0.091	5.4
beta-BHC	1	5.952	5.922	5.982	0.074	
	2	5.836	5.805	5.865	0.073	1.4
delta-BHC	1	6.076	6.048	6.108	0.067	
	2	6.029	6.000	6.060	0.068	1.5
Dieldrin	1	7.355	7.326	7.386	0.098	
	2	7.188	7.160	7.220	0.084	15.4
Endosulfan I	1	7.174	7.145	7.205	0.094	
	2	6.984	6.955	7.015	0.088	6.6
Endosulfan II	1	7.707	7.677	7.737	0.096	
	2	7.584	7.555	7.615	0.092	4.3
Endosulfan Sulfate	1	8.326	8.298	8.358	0.083	
	2	8.059	8.031	8.091	0.077	7.5
Endrin	1	7.534	7.505	7.565	0.095	
	2	7.419	7.391	7.451	0.094	1.1
Endrin Aldehyde	1	8.028	7.998	8.058	0.10	
	2	7.850	7.822	7.882	0.098	2.0
Endrin Ketone	1	8.506	8.476	8.536	0.096	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B210479-BS1 Date(s) Analyzed: 08/17/2018 08/17/2018
Instrument ID (1): ECD2A Instrument ID (2): ECD2B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.416	8.388	8.448	0.090	6.5
gamma-BHC (Lindane)	1	5.896	5.867	5.927	0.076	
	2	5.781	5.752	5.812	0.072	5.4
gamma-Chlordane	1	6.970	6.940	7.000	0.094	
	2	6.833	6.805	6.865	0.092	2.2
Heptachlor	1	6.224	6.195	6.255	0.070	
	2	6.072	6.042	6.102	0.094	29.3
Heptachlor Epoxide	1	6.878	6.849	6.909	0.093	
	2	6.697	6.669	6.729	0.089	4.4
Hexachlorobenzene	1	5.571	5.541	5.601	0.091	
	2	5.464	5.435	5.495	0.083	9.2
Methoxychlor	1	8.147	8.118	8.178	0.099	
	2	8.265	8.237	8.297	0.11	10.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B210479-BSD1 Date(s) Analyzed: 08/17/2018 08/17/2018
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.575	7.546	7.606	0.11	
	2	7.510	7.482	7.542	0.10	9.5
4,4'-DDE	1	7.118	7.089	7.149	0.11	
	2	7.068	7.039	7.099	0.096	13.6
4,4'-DDT	1	7.793	7.765	7.825	0.10	
	2	7.755	7.727	7.787	0.10	0.0
Alachlor	1	6.530	6.501	6.561	0.086	
	2	6.221	6.193	6.253	0.097	12.0
Aldrin	1	6.439	6.410	6.470	0.095	
	2	6.292	6.263	6.323	0.085	11.1
alpha-BHC	1	5.683	5.654	5.714	0.068	
	2	5.554	5.525	5.585	0.067	1.5
alpha-Chlordane	1	7.068	7.040	7.100	0.098	
	2	6.942	6.913	6.973	0.093	6.3
beta-BHC	1	5.951	5.922	5.982	0.077	
	2	5.836	5.805	5.865	0.075	2.6
delta-BHC	1	6.076	6.048	6.108	0.056	
	2	6.029	6.000	6.060	0.058	3.5
Dieldrin	1	7.355	7.326	7.386	0.10	
	2	7.189	7.160	7.220	0.087	13.9
Endosulfan I	1	7.174	7.145	7.205	0.096	
	2	6.984	6.955	7.015	0.091	5.4
Endosulfan II	1	7.707	7.677	7.737	0.097	
	2	7.584	7.555	7.615	0.095	2.1
Endosulfan Sulfate	1	8.326	8.298	8.358	0.067	
	2	8.059	8.031	8.091	0.065	3.0
Endrin	1	7.534	7.505	7.565	0.098	
	2	7.420	7.391	7.451	0.097	1.0
Endrin Aldehyde	1	8.026	7.998	8.058	0.11	
	2	7.849	7.822	7.882	0.10	9.5
Endrin Ketone	1	8.505	8.476	8.536	0.099	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

LCS Dup

Lab Sample ID: B210479-BSD1 Date(s) Analyzed: 08/17/2018 08/17/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.416	8.388	8.448	0.092	7.3
gamma-BHC (Lindane)	1	5.896	5.867	5.927	0.076	
	2	5.781	5.752	5.812	0.072	5.4
gamma-Chlordane	1	6.970	6.940	7.000	0.096	
	2	6.834	6.805	6.865	0.095	1.1
Heptachlor	1	6.225	6.195	6.255	0.070	
	2	6.071	6.042	6.102	0.095	30.3
Heptachlor Epoxide	1	6.878	6.849	6.909	0.095	
	2	6.698	6.669	6.729	0.091	4.3
Hexachlorobenzene	1	5.571	5.541	5.601	0.092	
	2	5.464	5.435	5.495	0.084	9.1
Methoxychlor	1	8.147	8.118	8.178	0.10	
	2	8.265	8.237	8.297	0.11	9.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B210704-BS1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.23	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.21	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B210704-BSD1 Date(s) Analyzed: 08/22/2018 08/22/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.22	4.7
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.21	0.0

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8151A in Water	
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1840744



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

KKM
VHB

Address: VHB
Phone: 617-607-1841
Project Location: EverSource
Project Number: 12470.00
Project Manager: Paul McKinlay
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: MTS

Request for Custody Record Form

7-Day 10-Day
Due Date:

1-Day 3-Day
2-Day 4-Day

Format: PDF EXCEL
Other:

CLP Like Data Pkg Required:

Email To: plc@veris.com
Fax To #: 413-525-6405

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code	Conc Code	Analysis Requested
01	MP-5	8/8/18	8/8/18	X	S	U	Vols. MRP/4 Metals SWS, PCBs, TPH PCB/pest Reaching (Industry) Feasibility, pH
02	MP-12	8/8/18	8/8/18	X	S	U	

Comments: 20x PUE for TUP
DI frozen day of generation

Relinquished by: (signature) [Signature] Date/Time: 8/15/18 1207
 Received by: (signature) [Signature] Date/Time: 8/15/18 1705
 Relinquished by: (signature) [Signature] Date/Time: 8/16/18 1620
 Relinquished by: (signature) [Signature] Date/Time: 8/15/18/620

Special Requirements:
 MA MCP Required
 WCP Certification Form Required
 CT RCP Required
 PWP Certification Form Required
 BIA State BIV Required
 PWSID #

Project Entity:
 Government Municipality MWRA WRTA
 Federal 21 J School AHPA-LAP, LLC
 City Brownfield MBTA

PCB ONLY:
 Soxhlet
 Non Soxhlet

DI frozen 8/15/18 @ 620

www.contestlabs.com

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client VHB
 Received By SE Date 8/15/18 Time 1620
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.3
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? T Who was notified? LUKE
 Is there enough Volume? T
 Is there Headspace where applicable? N/A MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Mech-	2	250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-	4	Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen: 8/15/18 @ 1620
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Mech-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

[Empty box for comments]

September 5, 2018

Paul McKinlay
Vanasse Hangen Brustlin, Inc.
101 Walnut Street
Watertown, MA 02472

Project Location: Eversource - Sudbury to Hudson
Client Job Number:
Project Number: 12970.00
Laboratory Work Order Number: 18H1308

Enclosed are results of analyses for samples received by the laboratory on August 27, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 9/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1308

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Eversource - Sudbury to Hudson

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-8	18H1308-01	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	
MP-7	18H1308-02	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Vanasse Hangen Brustlin, Inc.
 101 Walnut Street
 Watertown, MA 02472
 ATTN: Paul McKinlay

REPORT DATE: 9/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 12970.00

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1308

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Eversource - Sudbury to Hudson

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-16	18H1308-03	Soil		SM 2540G SM21-22 2510B Modified SW-846 1030 SW-846 6010D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8100 Modified SW-846 8151A SW-846 8260C SW-846 8270D SW-846 9014 SW-846 9030A SW-846 9045C	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8151, samples were derivatized on 08/29/18.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

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SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18H1308-02[MP-7], 18H1308-03[MP-16]

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**4,4'-DDE [2C]**

18H1308-02[MP-7], B211396-MS1, B211396-MSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**4,4'-DDD**

B211396-MS1, B211396-MSD1

4,4'-DDE

B211396-MS1, B211396-MSD1

4,4'-DDT

B211396-MS1, B211396-MSD1

Hexachlorobenzene

B211396-MS1, B211396-MSD1

SW-846 8082A

Qualifications:**O-32**

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16]

SW-846 8260C

Qualifications:**L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

B211399-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16], B211399-BLK1, B211399-BS1, B211399-BSD1

Tetrahydrofuran

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16], B211399-BLK1, B211399-BS1, B211399-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16], B211399-BLK1, B211399-BS1, B211399-BSD1, S026773-CCV1

Dichlorodifluoromethane (Freon 12)

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16], B211399-BLK1, B211399-BS1, B211399-BSD1, S026773-CCV1

SW-846 8270D

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Qualifications:**V-06**

Continuing calibration did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Aniline**

B211392-BS1, B211392-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Aniline**

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16], B211392-BLK1

SW-846 9045C**Qualifications:****H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**pH**

18H1308-01[MP-8], 18H1308-02[MP-7], 18H1308-03[MP-16]

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Benzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Bromobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Bromochloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Bromodichloromethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Bromoform	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Bromomethane	ND	0.0055	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 19:15	MFF
2-Butanone (MEK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
n-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
sec-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
tert-Butylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Carbon Disulfide	ND	0.0033	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Carbon Tetrachloride	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Chlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Chlorodibromomethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Chloroethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Chloroform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Chloromethane	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
2-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
4-Chlorotoluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2-Dibromoethane (EDB)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Dibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,3-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,4-Dichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0055	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2-Dichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
cis-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
trans-1,2-Dichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,3-Dichloropropane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
2,2-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
cis-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
trans-1,3-Dichloropropene	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Diethyl Ether	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Diisopropyl Ether (DIPE)	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,4-Dioxane	ND	0.055	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Ethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
2-Hexanone (MBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Isopropylbenzene (Cumene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Methylene Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Naphthalene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
n-Propylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Styrene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1,1,2-Tetrachloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.00055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Tetrachloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Tetrahydrofuran	ND	0.0055	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Toluene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2,3-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2,4-Trichlorobenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1,1-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,1,2-Trichloroethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Trichloroethylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2,3-Trichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,2,4-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
1,3,5-Trimethylbenzene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
Vinyl Chloride	ND	0.0055	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
m+p Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF
o-Xylene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	8/29/18 19:15
Toluene-d8	101	70-130	8/29/18 19:15
4-Bromofluorobenzene	90.0	70-130	8/29/18 19:15

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Aniline	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
4-Chloroaniline	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4-Dinitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
4-Nitrophenol	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Pyridine	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:29	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		63.7	30-130					9/4/18 13:29	
Phenol-d6		65.2	30-130					9/4/18 13:29	
Nitrobenzene-d5		65.1	30-130					9/4/18 13:29	
2-Fluorobiphenyl		66.9	30-130					9/4/18 13:29	
2,4,6-Tribromophenol		73.7	30-130					9/4/18 13:29	
p-Terphenyl-d14		75.5	30-130					9/4/18 13:29	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Aldrin [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
alpha-BHC [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
beta-BHC [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
delta-BHC [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
gamma-BHC (Lindane) [2]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Chlordane [2]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
4,4'-DDD [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
4,4'-DDE [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
4,4'-DDT [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Dieldrin [2]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endosulfan I [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endosulfan II [2]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endosulfan sulfate [2]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endrin [2]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endrin aldehyde [2]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Endrin ketone [2]	ND	0.0089	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Heptachlor [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Heptachlor epoxide [2]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Hexachlorobenzene [2]	ND	0.0066	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Methoxychlor [2]	ND	0.055	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Toxaphene [2]	ND	0.11	mg/Kg dry	1		SW-846 8081B	8/29/18	9/2/18 1:34	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.8	30-150					9/2/18 1:34	
Decachlorobiphenyl [2]		75.3	30-150					9/2/18 1:34	
Tetrachloro-m-xylene [1]		81.5	30-150					9/2/18 1:34	
Tetrachloro-m-xylene [2]		79.3	30-150					9/2/18 1:34	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:35	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.0	30-150					8/30/18 15:35	
Decachlorobiphenyl [2]		96.4	30-150					8/30/18 15:35	
Tetrachloro-m-xylene [1]		90.1	30-150					8/30/18 15:35	
Tetrachloro-m-xylene [2]		93.9	30-150					8/30/18 15:35	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
2,4-DB [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
2,4,5-TP (Silvex) [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
2,4,5-T [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
Dalapon [1]	ND	69	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
Dicamba [1]	ND	2.8	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
Dichloroprop [1]	ND	28	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
Dinoseb [1]	ND	14	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
MCPA [1]	ND	2800	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:20	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		74.1	30-150					8/31/18 7:20	
2,4-Dichlorophenylacetic acid [2]		73.5	30-150					8/31/18 7:20	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	130	46	mg/Kg dry	5		SW-846 8100 Modified	8/29/18	8/30/18 13:43	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		76.4	40-140					8/30/18 13:43	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Arsenic	11	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Barium	18	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Cadmium	0.40	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Chromium	12	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Lead	7.1	0.55	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Mercury	ND	0.029	mg/Kg dry	1		SW-846 7471B	9/4/18	9/5/18 12:20	EDF
Nickel	8.6	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Vanadium	13	0.73	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB
Zinc	29	0.73	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:15	EJB

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-8

Sampled: 8/20/2018 12:00

Sample ID: 18H1308-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/27/18	8/27/18 15:00	LED
pH @25.9°C	5.7		pH Units	1	H-03	SW-846 9045C	8/27/18	8/27/18 19:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/28/18	8/29/18 13:40	DJM
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	8/28/18	8/29/18 13:10	DJM
Specific conductance	24	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/29/18	8/29/18 13:30	EC
% Solids	90.3		% Wt	1		SM 2540G	8/30/18	8/31/18 10:39	MJR

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Bromochloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Bromomethane	ND	0.0068	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 19:42	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Carbon Disulfide	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Chlorodibromomethane	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Chloroethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Chloromethane	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0068	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,3-Dichloropropane	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
cis-1,3-Dichloropropene	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
trans-1,3-Dichloropropene	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Diethyl Ether	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Diisopropyl Ether (DIPE)	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,4-Dioxane	ND	0.068	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Methylene Chloride	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.00068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Tetrahydrofuran	ND	0.0068	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
Vinyl Chloride	ND	0.0068	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 19:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	8/29/18 19:42
Toluene-d8	99.4	70-130	8/29/18 19:42
4-Bromofluorobenzene	102	70-130	8/29/18 19:42

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Aniline	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Benzo(a)anthracene	0.43	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Benzo(a)pyrene	0.57	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Benzo(b)fluoranthene	0.63	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Benzo(g,h,i)perylene	0.46	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Benzo(k)fluoranthene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Chrysene	0.46	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Fluoranthene	0.78	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Indeno(1,2,3-cd)pyrene	0.50	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Phenanthrene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Pyrene	0.86	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 13:52	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		51.1	30-130					9/4/18 13:52	
Phenol-d6		55.4	30-130					9/4/18 13:52	
Nitrobenzene-d5		50.9	30-130					9/4/18 13:52	
2-Fluorobiphenyl		59.5	30-130					9/4/18 13:52	
2,4,6-Tribromophenol		71.0	30-130					9/4/18 13:52	
p-Terphenyl-d14		74.1	30-130					9/4/18 13:52	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.20	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Aldrin [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
alpha-BHC [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
beta-BHC [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
delta-BHC [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
gamma-BHC (Lindane) [2]	ND	0.020	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Chlordane [2]	ND	0.20	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
4,4'-DDD [2]	ND	0.041	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
4,4'-DDE [2]	ND	0.041	mg/Kg dry	10	R-06	SW-846 8081B	8/29/18	9/2/18 2:01	TG
4,4'-DDT [2]	ND	0.041	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Dieldrin [2]	ND	0.041	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endosulfan I [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endosulfan II [2]	ND	0.081	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endosulfan sulfate [2]	ND	0.081	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endrin [2]	ND	0.081	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endrin aldehyde [2]	ND	0.081	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Endrin ketone [2]	ND	0.081	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Heptachlor [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Heptachlor epoxide [2]	ND	0.051	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Hexachlorobenzene [2]	ND	0.061	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Methoxychlor [2]	ND	0.51	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Toxaphene [2]	ND	1.0	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:01	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.1	30-150					9/2/18 2:01	
Decachlorobiphenyl [2]		87.7	30-150					9/2/18 2:01	
Tetrachloro-m-xylene [1]		88.0	30-150					9/2/18 2:01	
Tetrachloro-m-xylene [2]		82.6	30-150					9/2/18 2:01	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 15:52	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.6	30-150					8/30/18 15:52	
Decachlorobiphenyl [2]		111	30-150					8/30/18 15:52	
Tetrachloro-m-xylene [1]		99.9	30-150					8/30/18 15:52	
Tetrachloro-m-xylene [2]		102	30-150					8/30/18 15:52	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
Dalalpon [1]	ND	67	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
Dinoseb [1]	ND	13	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 7:59	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2,4-Dichlorophenylacetic acid [1]	65.4	30-150						8/31/18 7:59	
2,4-Dichlorophenylacetic acid [2]	65.4	30-150						8/31/18 7:59	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	65	9.0	mg/Kg dry	1		SW-846 8100 Modified	8/29/18	8/31/18 16:01	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		78.0	40-140					8/31/18 16:01	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Arsenic	7.8	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Barium	69	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Cadmium	0.33	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Chromium	25	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Lead	7.8	0.54	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	9/4/18	9/5/18 12:21	EDF
Nickel	17	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Vanadium	28	0.71	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB
Zinc	35	0.71	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:20	EJB

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-7

Sampled: 8/20/2018 14:45

Sample ID: 18H1308-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/27/18	8/27/18 15:00	LED
pH @25.4°C	6.1		pH Units	1	H-03	SW-846 9045C	8/27/18	8/27/18 19:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/28/18	8/29/18 13:40	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/28/18	8/29/18 13:10	DJM
Specific conductance	31	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/29/18	8/29/18 13:30	EC
% Solids	93.0		% Wt	1		SM 2540G	8/30/18	8/31/18 10:39	MJR

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Benzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Bromobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Bromochloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Bromodichloromethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Bromoform	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Bromomethane	ND	0.0059	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 20:10	MFF
2-Butanone (MEK)	ND	0.024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
n-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
sec-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
tert-Butylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Carbon Disulfide	ND	0.0036	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Carbon Tetrachloride	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Chlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Chlorodibromomethane	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Chloroethane	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Chloroform	ND	0.0024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Chloromethane	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
2-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
4-Chlorotoluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2-Dibromoethane (EDB)	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Dibromomethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,3-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,4-Dichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.0059	mg/Kg dry	1	V-34	SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2-Dichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1-Dichloroethylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
cis-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
trans-1,2-Dichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,3-Dichloropropane	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
2,2-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1-Dichloropropene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
cis-1,3-Dichloropropene	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
trans-1,3-Dichloropropene	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Diethyl Ether	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Diisopropyl Ether (DIPE)	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,4-Dioxane	ND	0.059	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Ethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
2-Hexanone (MBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Isopropylbenzene (Cumene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Methylene Chloride	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Naphthalene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
n-Propylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Styrene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.00059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Tetrachloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Tetrahydrofuran	ND	0.0059	mg/Kg dry	1	V-16	SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Toluene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2,3-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2,4-Trichlorobenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1,1-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,1,2-Trichloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Trichloroethylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2,3-Trichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,2,4-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
1,3,5-Trimethylbenzene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
Vinyl Chloride	ND	0.0059	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
m+p Xylene	ND	0.0024	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF
o-Xylene	ND	0.0012	mg/Kg dry	1		SW-846 8260C	8/29/18	8/29/18 20:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	8/29/18 20:10
Toluene-d8	101	70-130	8/29/18 20:10
4-Bromofluorobenzene	102	70-130	8/29/18 20:10

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Aniline	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Benzo(a)anthracene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Benzo(a)pyrene	0.30	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Benzo(b)fluoranthene	0.34	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Benzo(g,h,i)perylene	0.27	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Chrysene	0.23	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Fluoranthene	0.44	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Indeno(1,2,3-cd)pyrene	0.29	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Phenanthrene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Pyrene	0.48	0.18	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Pyridine	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/29/18	9/4/18 14:14	CDT
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		49.0	30-130					9/4/18 14:14	
Phenol-d6		53.5	30-130					9/4/18 14:14	
Nitrobenzene-d5		50.7	30-130					9/4/18 14:14	
2-Fluorobiphenyl		54.2	30-130					9/4/18 14:14	
2,4,6-Tribromophenol		63.0	30-130					9/4/18 14:14	
p-Terphenyl-d14		68.0	30-130					9/4/18 14:14	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.22	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Aldrin [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
alpha-BHC [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
beta-BHC [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
delta-BHC [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
gamma-BHC (Lindane) [2]	ND	0.022	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Chlordane [2]	ND	0.22	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
4,4'-DDD [2]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
4,4'-DDE [2]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
4,4'-DDT [2]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Dieldrin [2]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endosulfan I [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endosulfan II [2]	ND	0.087	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endosulfan sulfate [2]	ND	0.087	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endrin [2]	ND	0.087	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endrin aldehyde [2]	ND	0.087	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Endrin ketone [2]	ND	0.087	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Heptachlor [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Heptachlor epoxide [2]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Hexachlorobenzene [2]	ND	0.065	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Methoxychlor [2]	ND	0.54	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Toxaphene [2]	ND	1.1	mg/Kg dry	10		SW-846 8081B	8/29/18	9/2/18 2:28	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.2	30-150					9/2/18 2:28	
Decachlorobiphenyl [2]		92.5	30-150					9/2/18 2:28	
Tetrachloro-m-xylene [1]		95.1	30-150					9/2/18 2:28	
Tetrachloro-m-xylene [2]		86.1	30-150					9/2/18 2:28	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/29/18	8/30/18 16:10	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.2	30-150					8/30/18 16:10	
Decachlorobiphenyl [2]		111	30-150					8/30/18 16:10	
Tetrachloro-m-xylene [1]		101	30-150					8/30/18 16:10	
Tetrachloro-m-xylene [2]		104	30-150					8/30/18 16:10	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
2,4-DB [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
2,4,5-TP (Silvex) [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
2,4,5-T [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
Dalapon [1]	ND	67	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
Dicamba [1]	ND	2.7	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
Dichloroprop [1]	ND	27	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
Dinoseb [1]	ND	13	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
MCPA [1]	ND	2700	µg/kg dry	1		SW-846 8151A	8/28/18	8/31/18 8:38	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,4-Dichlorophenylacetic acid [1]		78.4	30-150					8/31/18 8:38	
2,4-Dichlorophenylacetic acid [2]		81.0	30-150					8/31/18 8:38	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	71	8.8	mg/Kg dry	1		SW-846 8100 Modified	8/29/18	8/31/18 16:19	RMW
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorobiphenyl		72.3	40-140					8/31/18 16:19	

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Arsenic	9.7	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Barium	33	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Beryllium	ND	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Cadmium	0.36	0.18	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Chromium	20	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Lead	12	0.54	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	9/4/18	9/5/18 12:23	EDF
Nickel	14	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Vanadium	21	0.72	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB
Zinc	29	0.72	mg/Kg dry	1		SW-846 6010D	8/31/18	9/4/18 15:25	EJB

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Project Location: Eversource - Sudbury to Hudson

Sample Description:

Work Order: 18H1308

Date Received: 8/27/2018

Field Sample #: MP-16

Sampled: 8/23/2018 15:00

Sample ID: 18H1308-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ignitability	Absent		present/absent	1		SW-846 1030	8/27/18	8/27/18 15:00	LED
pH @25.4°C	5.8		pH Units	1	H-03	SW-846 9045C	8/27/18	8/27/18 19:32	LED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/28/18	8/29/18 13:40	DJM
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/28/18	8/29/18 13:10	DJM
Specific conductance	6.8	2.0	µmhos/cm	1		SM21-22 2510B Modified	8/29/18	8/29/18 13:30	EC
% Solids	92.5		% Wt	1		SM 2540G	8/30/18	8/31/18 10:39	MJR

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18H1308-01 [MP-8]	B211518	08/30/18
18H1308-02 [MP-7]	B211518	08/30/18
18H1308-03 [MP-16]	B211518	08/30/18

SM21-22 2510B Modified

Lab Number [Field ID]	Batch	Initial [g]	Date
18H1308-01 [MP-8]	B211353	1.00	08/29/18
18H1308-02 [MP-7]	B211353	1.00	08/29/18
18H1308-03 [MP-16]	B211353	1.00	08/29/18

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
18H1308-01 [MP-8]	B211227	50.0	08/27/18
18H1308-02 [MP-7]	B211227	50.0	08/27/18
18H1308-03 [MP-16]	B211227	50.0	08/27/18

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211582	1.52	50.0	08/31/18
18H1308-02 [MP-7]	B211582	1.51	50.0	08/31/18
18H1308-03 [MP-16]	B211582	1.50	50.0	08/31/18

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211680	0.575	50.0	09/04/18
18H1308-02 [MP-7]	B211680	0.577	50.0	09/04/18
18H1308-03 [MP-16]	B211680	0.588	50.0	09/04/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211396	10.0	10.0	08/29/18
18H1308-02 [MP-7]	B211396	10.6	10.0	08/29/18
18H1308-03 [MP-16]	B211396	10.0	10.0	08/29/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211395	10.0	10.0	08/29/18
18H1308-02 [MP-7]	B211395	10.6	10.0	08/29/18
18H1308-03 [MP-16]	B211395	10.0	10.0	08/29/18

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211391	30.1	1.00	08/29/18
18H1308-02 [MP-7]	B211391	30.0	1.00	08/29/18
18H1308-03 [MP-16]	B211391	30.6	1.00	08/29/18

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211241	20.0	5.00	08/28/18
18H1308-02 [MP-7]	B211241	20.1	5.00	08/28/18
18H1308-03 [MP-16]	B211241	20.1	5.00	08/28/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1308-01 [MP-8]	B211399	9.98	10.0	08/29/18
18H1308-02 [MP-7]	B211399	7.90	10.0	08/29/18
18H1308-03 [MP-16]	B211399	9.13	10.0	08/29/18

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211392	30.1	1.00	08/29/18
18H1308-02 [MP-7]	B211392	30.0	1.00	08/29/18
18H1308-03 [MP-16]	B211392	30.6	1.00	08/29/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211264	25.8	250	08/28/18
18H1308-02 [MP-7]	B211264	25.4	250	08/28/18
18H1308-03 [MP-16]	B211264	25.5	250	08/28/18

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H1308-01 [MP-8]	B211268	25.8	250	08/28/18
18H1308-02 [MP-7]	B211268	25.4	250	08/28/18
18H1308-03 [MP-16]	B211268	25.5	250	08/28/18

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
18H1308-01 [MP-8]	B211234	20.0	08/27/18
18H1308-02 [MP-7]	B211234	20.0	08/27/18
18H1308-03 [MP-16]	B211234	20.0	08/27/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211399 - SW-846 5030B

Blank (B211399-BLK1)

Prepared & Analyzed: 08/29/18

Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.010	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.010	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.010	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211399 - SW-846 5030B

Blank (B211399-BLK1)

Prepared & Analyzed: 08/29/18

n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0508		mg/Kg wet	0.0500		102	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

LCS (B211399-BS1)

Prepared & Analyzed: 08/29/18

Acetone	0.244	0.10	mg/Kg wet	0.200		122	40-160			†
tert-Amyl Methyl Ether (TAME)	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Bromochloromethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromodichloromethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromoform	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Bromomethane	0.0131	0.010	mg/Kg wet	0.0200		65.4	40-160		L-14, V-34	†
2-Butanone (MEK)	0.264	0.040	mg/Kg wet	0.200		132	40-160		L-14	†
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
sec-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
Carbon Disulfide	0.0207	0.0060	mg/Kg wet	0.0200		104	70-130			
Carbon Tetrachloride	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Chlorodibromomethane	0.0223	0.0010	mg/Kg wet	0.0200		112	70-130			
Chloroethane	0.0190	0.010	mg/Kg wet	0.0200		94.9	70-130			
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130			
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		87.2	40-160			†
2-Chlorotoluene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
4-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dibromoethane (EDB)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
1,4-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211399 - SW-846 5030B										
LCS (B211399-BS1)										
Prepared & Analyzed: 08/29/18										
Dichlorodifluoromethane (Freon 12)	0.0152	0.010	mg/Kg wet	0.0200		76.0	40-160			V-34 †
1,1-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloroethylene	0.0207	0.0040	mg/Kg wet	0.0200		103	70-130			
cis-1,2-Dichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
trans-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2-Dichloropropane	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130			
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130			
2,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130			
trans-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130			
Diethyl Ether	0.0199	0.010	mg/Kg wet	0.0200		99.6	70-130			
Diisopropyl Ether (DIPE)	0.0195	0.0010	mg/Kg wet	0.0200		97.7	70-130			
1,4-Dioxane	0.229	0.10	mg/Kg wet	0.200		114	40-160			V-16 †
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Hexachlorobutadiene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
2-Hexanone (MBK)	0.252	0.020	mg/Kg wet	0.200		126	40-160			†
Isopropylbenzene (Cumene)	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
p-Isopropyltoluene (p-Cymene)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Methylene Chloride	0.0208	0.010	mg/Kg wet	0.0200		104	70-130			
4-Methyl-2-pentanone (MIBK)	0.251	0.020	mg/Kg wet	0.200		126	40-160			†
Naphthalene	0.0211	0.0040	mg/Kg wet	0.0200		105	70-130			
n-Propylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Styrene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1,2-Tetrachloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130			
Tetrachloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Tetrahydrofuran	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			V-16
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2,4-Trichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,2-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Trichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichlorofluoromethane (Freon 11)	0.0169	0.010	mg/Kg wet	0.0200		84.6	70-130			
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2,4-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		84.8	70-130			
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.2	70-130			
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0518		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0511		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0517		mg/Kg wet	0.0500		103	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211399 - SW-846 5030B

LCS Dup (B211399-BSD1)

Prepared & Analyzed: 08/29/18

Acetone	0.243	0.10	mg/Kg wet	0.200		122	40-160	0.197	20	†
tert-Amyl Methyl Ether (TAME)	0.0198	0.0010	mg/Kg wet	0.0200		98.9	70-130	2.46	20	
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.95	20	
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	2.37	20	
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	2.15	20	
Bromodichloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.193	20	
Bromoform	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.94	20	
Bromomethane	0.0135	0.010	mg/Kg wet	0.0200		67.7	40-160	3.46	20	L-14, V-34 †
2-Butanone (MEK)	0.259	0.040	mg/Kg wet	0.200		129	40-160	1.96	20	†
n-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	1.41	20	
sec-Butylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.09	20	
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	6.67	20	
tert-Butyl Ethyl Ether (TBEE)	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130	2.49	20	
Carbon Disulfide	0.0220	0.0060	mg/Kg wet	0.0200		110	70-130	6.09	20	
Carbon Tetrachloride	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.59	20	
Chlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	0.788	20	
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	0.449	20	
Chloroethane	0.0191	0.010	mg/Kg wet	0.0200		95.4	70-130	0.525	20	
Chloroform	0.0211	0.0040	mg/Kg wet	0.0200		106	70-130	1.33	20	
Chloromethane	0.0176	0.010	mg/Kg wet	0.0200		88.2	40-160	1.14	20	†
2-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	3.87	20	
4-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.608	20	
1,2-Dibromo-3-chloropropane (DBCP)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	7.97	20	
1,2-Dibromoethane (EDB)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	1.95	20	
Dibromomethane	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	2.39	20	
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	0.104	20	
1,3-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	0.304	20	
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	4.72	20	
Dichlorodifluoromethane (Freon 12)	0.0147	0.010	mg/Kg wet	0.0200		73.5	40-160	3.34	20	V-34 †
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	4.97	20	
1,2-Dichloroethane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	1.49	20	
1,1-Dichloroethylene	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130	0.0968	20	
cis-1,2-Dichloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.277	20	
trans-1,2-Dichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.77	20	
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	5.15	20	
1,3-Dichloropropane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	0.767	20	
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	2.07	20	
1,1-Dichloropropene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	0.494	20	
cis-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		95.9	70-130	1.14	20	
trans-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	0.0931	20	
Diethyl Ether	0.0208	0.010	mg/Kg wet	0.0200		104	70-130	4.51	20	
Diisopropyl Ether (DIPE)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	6.15	20	
1,4-Dioxane	0.219	0.10	mg/Kg wet	0.200		110	40-160	4.28	20	V-16 †
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	1.08	20	
Hexachlorobutadiene	0.0264	0.0020	mg/Kg wet	0.0200		132 *	70-130	15.5	20	L-07
2-Hexanone (MBK)	0.242	0.020	mg/Kg wet	0.200		121	40-160	4.43	20	†
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	3.38	20	
p-Isopropyltoluene (p-Cymene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	1.44	20	
Methyl tert-Butyl Ether (MTBE)	0.0209	0.0040	mg/Kg wet	0.0200		104	70-130	1.54	20	
Methylene Chloride	0.0226	0.010	mg/Kg wet	0.0200		113	70-130	8.21	20	
4-Methyl-2-pentanone (MIBK)	0.247	0.020	mg/Kg wet	0.200		123	40-160	1.72	20	†
Naphthalene	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130	5.71	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211399 - SW-846 5030B										
LCS Dup (B211399-BSD1)										
Prepared & Analyzed: 08/29/18										
n-Propylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	0.297	20	
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	2.07	20	
1,1,1,2-Tetrachloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	8.83	20	
1,1,2,2-Tetrachloroethane	0.0188	0.0010	mg/Kg wet	0.0200		94.2	70-130	2.93	20	
Tetrachloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	0.953	20	
Tetrahydrofuran	0.0216	0.010	mg/Kg wet	0.0200		108	70-130	3.64	20	V-16
Toluene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.685	20	
1,2,3-Trichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.30	20	
1,2,4-Trichlorobenzene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130	18.5	20	
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	1.30	20	
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	3.36	20	
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.57	20	
Trichlorofluoromethane (Freon 11)	0.0172	0.010	mg/Kg wet	0.0200		85.8	70-130	1.41	20	
1,2,3-Trichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.24	20	
1,2,4-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.48	20	
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.26	20	
Vinyl Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.5	70-130	1.98	20	
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100	70-130	1.05	20	
o-Xylene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.33	20	
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0500		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0506		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211392 - SW-846 3546

Blank (B211392-BLK1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							V-20
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211392 - SW-846 3546

Blank (B211392-BLK1)

Prepared: 08/29/18 Analyzed: 08/30/18

Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	3.43		mg/Kg wet	6.67		51.5	30-130			
Surrogate: Phenol-d6	3.56		mg/Kg wet	6.67		53.4	30-130			
Surrogate: Nitrobenzene-d5	1.78		mg/Kg wet	3.33		53.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.88		mg/Kg wet	3.33		56.5	30-130			
Surrogate: 2,4,6-Tribromophenol	4.10		mg/Kg wet	6.67		61.5	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/Kg wet	3.33		75.3	30-130			

LCS (B211392-BS1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acenaphthene	0.866	0.17	mg/Kg wet	1.67		51.9	40-140			
Acenaphthylene	0.868	0.17	mg/Kg wet	1.67		52.1	40-140			
Acetophenone	0.816	0.34	mg/Kg wet	1.67		49.0	40-140			
Aniline	0.881	0.34	mg/Kg wet	1.67		52.8	40-140			V-06
Anthracene	0.929	0.17	mg/Kg wet	1.67		55.7	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.950	0.17	mg/Kg wet	1.67		57.0	40-140			
Benzo(b)fluoranthene	0.873	0.17	mg/Kg wet	1.67		52.4	40-140			
Benzo(g,h,i)perylene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Benzo(k)fluoranthene	0.894	0.17	mg/Kg wet	1.67		53.6	40-140			
Bis(2-chloroethoxy)methane	0.948	0.34	mg/Kg wet	1.67		56.9	40-140			
Bis(2-chloroethyl)ether	0.859	0.34	mg/Kg wet	1.67		51.6	40-140			
Bis(2-chloroisopropyl)ether	0.913	0.34	mg/Kg wet	1.67		54.8	40-140			
Bis(2-Ethylhexyl)phthalate	0.968	0.34	mg/Kg wet	1.67		58.1	40-140			
4-Bromophenylphenylether	0.965	0.34	mg/Kg wet	1.67		57.9	40-140			
Butylbenzylphthalate	0.956	0.34	mg/Kg wet	1.67		57.4	40-140			
4-Chloroaniline	0.674	0.66	mg/Kg wet	1.67		40.5	15-140			†
2-Chloronaphthalene	0.848	0.34	mg/Kg wet	1.67		50.9	40-140			
2-Chlorophenol	0.852	0.34	mg/Kg wet	1.67		51.1	30-130			
Chrysene	0.904	0.17	mg/Kg wet	1.67		54.2	40-140			
Dibenz(a,h)anthracene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140			
Dibenzofuran	0.892	0.34	mg/Kg wet	1.67		53.5	40-140			
Di-n-butylphthalate	0.881	0.34	mg/Kg wet	1.67		52.8	40-140			
1,2-Dichlorobenzene	0.821	0.34	mg/Kg wet	1.67		49.3	40-140			
1,3-Dichlorobenzene	0.800	0.34	mg/Kg wet	1.67		48.0	40-140			
1,4-Dichlorobenzene	0.812	0.34	mg/Kg wet	1.67		48.7	40-140			
3,3-Dichlorobenzidine	0.858	0.17	mg/Kg wet	1.67		51.5	40-140			
2,4-Dichlorophenol	0.841	0.34	mg/Kg wet	1.67		50.5	30-130			
Diethylphthalate	0.855	0.34	mg/Kg wet	1.67		51.3	40-140			
2,4-Dimethylphenol	0.913	0.34	mg/Kg wet	1.67		54.8	30-130			
Dimethylphthalate	0.880	0.34	mg/Kg wet	1.67		52.8	40-140			
2,4-Dinitrophenol	0.993	0.66	mg/Kg wet	1.67		59.6	15-140			†
2,4-Dinitrotoluene	0.938	0.34	mg/Kg wet	1.67		56.3	40-140			
2,6-Dinitrotoluene	1.01	0.34	mg/Kg wet	1.67		60.4	40-140			
Di-n-octylphthalate	0.939	0.34	mg/Kg wet	1.67		56.4	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	0.961	0.34	mg/Kg wet	1.67		57.6	40-140			
Fluoranthene	0.870	0.17	mg/Kg wet	1.67		52.2	40-140			
Fluorene	0.870	0.17	mg/Kg wet	1.67		52.2	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211392 - SW-846 3546

LCS (B211392-BS1)

Prepared: 08/29/18 Analyzed: 08/30/18

Hexachlorobenzene	0.968	0.34	mg/Kg wet	1.67		58.1	40-140			
Hexachlorobutadiene	0.869	0.34	mg/Kg wet	1.67		52.2	40-140			
Hexachloroethane	0.815	0.34	mg/Kg wet	1.67		48.9	40-140			
Indeno(1,2,3-cd)pyrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Isophorone	0.911	0.34	mg/Kg wet	1.67		54.7	40-140			
2-Methylnaphthalene	0.889	0.17	mg/Kg wet	1.67		53.4	40-140			
2-Methylphenol	0.876	0.34	mg/Kg wet	1.67		52.6	30-130			
3/4-Methylphenol	0.887	0.34	mg/Kg wet	1.67		53.2	30-130			
Naphthalene	0.837	0.17	mg/Kg wet	1.67		50.2	40-140			
Nitrobenzene	0.869	0.34	mg/Kg wet	1.67		52.1	40-140			
2-Nitrophenol	0.918	0.34	mg/Kg wet	1.67		55.1	30-130			
4-Nitrophenol	0.914	0.66	mg/Kg wet	1.67		54.8	15-140			†
Pentachlorophenol	0.961	0.34	mg/Kg wet	1.67		57.7	30-130			
Phenanthrene	0.924	0.17	mg/Kg wet	1.67		55.4	40-140			
Phenol	0.864	0.34	mg/Kg wet	1.67		51.8	15-140			†
Pyrene	0.950	0.17	mg/Kg wet	1.67		57.0	40-140			
Pyridine	0.603	0.34	mg/Kg wet	1.67		36.2	30-140			†
1,2,4-Trichlorobenzene	0.867	0.34	mg/Kg wet	1.67		52.0	40-140			
2,4,5-Trichlorophenol	0.949	0.34	mg/Kg wet	1.67		57.0	30-130			
2,4,6-Trichlorophenol	0.970	0.34	mg/Kg wet	1.67		58.2	30-130			
Surrogate: 2-Fluorophenol	3.62		mg/Kg wet	6.67		54.2	30-130			
Surrogate: Phenol-d6	3.61		mg/Kg wet	6.67		54.2	30-130			
Surrogate: Nitrobenzene-d5	1.82		mg/Kg wet	3.33		54.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.08		mg/Kg wet	3.33		62.4	30-130			
Surrogate: 2,4,6-Tribromophenol	4.23		mg/Kg wet	6.67		63.4	30-130			
Surrogate: p-Terphenyl-d14	2.31		mg/Kg wet	3.33		69.3	30-130			

LCS Dup (B211392-BS1)

Prepared: 08/29/18 Analyzed: 08/30/18

Acenaphthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	16.7	30	
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	15.4	30	
Acetophenone	0.906	0.34	mg/Kg wet	1.67		54.3	40-140	10.4	30	
Aniline	0.992	0.34	mg/Kg wet	1.67		59.5	40-140	11.9	30	V-06
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	19.7	30	
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	21.4	30	
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	21.0	30	
Benzo(b)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	21.7	30	
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	19.4	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	20.6	30	
Bis(2-chloroethoxy)methane	1.10	0.34	mg/Kg wet	1.67		66.2	40-140	15.2	30	
Bis(2-chloroethyl)ether	0.931	0.34	mg/Kg wet	1.67		55.9	40-140	8.01	30	
Bis(2-chloroisopropyl)ether	1.08	0.34	mg/Kg wet	1.67		64.7	40-140	16.5	30	
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	25.5	30	
4-Bromophenylphenylether	1.15	0.34	mg/Kg wet	1.67		68.7	40-140	17.1	30	
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	24.4	30	
4-Chloroaniline	0.751	0.66	mg/Kg wet	1.67		45.1	15-140	10.8	30	†
2-Chloronaphthalene	0.918	0.34	mg/Kg wet	1.67		55.1	40-140	7.96	30	
2-Chlorophenol	0.927	0.34	mg/Kg wet	1.67		55.6	30-130	8.39	30	
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	21.1	30	
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	22.5	30	
Dibenzofuran	1.06	0.34	mg/Kg wet	1.67		63.5	40-140	17.0	30	
Di-n-butylphthalate	1.12	0.34	mg/Kg wet	1.67		67.4	40-140	24.2	30	
1,2-Dichlorobenzene	0.834	0.34	mg/Kg wet	1.67		50.1	40-140	1.61	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211392 - SW-846 3546										
LCS Dup (B211392-BSD1)										
					Prepared: 08/29/18 Analyzed: 08/30/18					
1,3-Dichlorobenzene	0.807	0.34	mg/Kg wet	1.67		48.4	40-140	0.871	30	
1,4-Dichlorobenzene	0.818	0.34	mg/Kg wet	1.67		49.1	40-140	0.736	30	
3,3-Dichlorobenzidine	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	18.0	30	
2,4-Dichlorophenol	0.959	0.34	mg/Kg wet	1.67		57.5	30-130	13.0	30	
Diethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.7	40-140	21.5	30	
2,4-Dimethylphenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130	15.5	30	
Dimethylphthalate	1.06	0.34	mg/Kg wet	1.67		63.8	40-140	18.8	30	
2,4-Dinitrophenol	1.19	0.66	mg/Kg wet	1.67		71.6	15-140	18.2	30	†
2,4-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.4	40-140	22.2	30	
2,6-Dinitrotoluene	1.24	0.34	mg/Kg wet	1.67		74.4	40-140	20.8	30	
Di-n-octylphthalate	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	24.3	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	25.9	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.5	40-140	21.1	30	
Fluorene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	16.9	30	
Hexachlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.3	40-140	14.6	30	
Hexachlorobutadiene	0.854	0.34	mg/Kg wet	1.67		51.2	40-140	1.78	30	
Hexachloroethane	0.855	0.34	mg/Kg wet	1.67		51.3	40-140	4.79	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140	21.0	30	
Isophorone	1.07	0.34	mg/Kg wet	1.67		64.1	40-140	16.0	30	
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.3	40-140	12.3	30	
2-Methylphenol	1.02	0.34	mg/Kg wet	1.67		61.2	30-130	15.3	30	
3/4-Methylphenol	1.03	0.34	mg/Kg wet	1.67		62.0	30-130	15.3	30	
Naphthalene	0.901	0.17	mg/Kg wet	1.67		54.1	40-140	7.40	30	
Nitrobenzene	0.982	0.34	mg/Kg wet	1.67		58.9	40-140	12.2	30	
2-Nitrophenol	1.01	0.34	mg/Kg wet	1.67		60.7	30-130	9.71	30	
4-Nitrophenol	1.23	0.66	mg/Kg wet	1.67		73.7	15-140	29.4	30	†
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.3	30-130	15.5	30	
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	19.4	30	
Phenol	0.990	0.34	mg/Kg wet	1.67		59.4	15-140	13.7	30	†
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	18.5	30	
Pyridine	0.635	0.34	mg/Kg wet	1.67		38.1	30-140	5.22	30	†
1,2,4-Trichlorobenzene	0.893	0.34	mg/Kg wet	1.67		53.6	40-140	2.92	30	
2,4,5-Trichlorophenol	1.13	0.34	mg/Kg wet	1.67		67.6	30-130	17.1	30	
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4	30-130	16.1	30	
Surrogate: 2-Fluorophenol	3.78		mg/Kg wet	6.67		56.8	30-130			
Surrogate: Phenol-d6	4.12		mg/Kg wet	6.67		61.8	30-130			
Surrogate: Nitrobenzene-d5	2.03		mg/Kg wet	3.33		60.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.34		mg/Kg wet	3.33		70.3	30-130			
Surrogate: 2,4,6-Tribromophenol	4.93		mg/Kg wet	6.67		73.9	30-130			
Surrogate: p-Terphenyl-d14	2.73		mg/Kg wet	3.33		81.9	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211396 - SW-846 3546										
Blank (B211396-BLK1)										
Prepared: 08/29/18 Analyzed: 08/31/18										
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.166		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.7	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211396 - SW-846 3546										
LCS (B211396-BS1)										
Prepared: 08/29/18 Analyzed: 08/31/18										
alpha-Chlordane	0.090	0.0050	mg/Kg wet	0.100		89.9	40-140			
alpha-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		87.5	40-140			
gamma-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.7	40-140			
gamma-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140			
Alachlor	0.10	0.020	mg/Kg wet	0.100		102	40-140			
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		94.7	40-140			
Aldrin	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140			
Aldrin [2C]	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140			
alpha-BHC	0.078	0.0050	mg/Kg wet	0.100		77.6	40-140			
alpha-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		70.2	40-140			
beta-BHC	0.083	0.0050	mg/Kg wet	0.100		82.6	40-140			
beta-BHC [2C]	0.069	0.0050	mg/Kg wet	0.100		69.2	40-140			
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.7	40-140			
delta-BHC [2C]	0.071	0.0050	mg/Kg wet	0.100		70.9	40-140			
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.100		82.4	40-140			
gamma-BHC (Lindane) [2C]	0.075	0.0020	mg/Kg wet	0.100		75.0	40-140			
4,4'-DDD	0.098	0.0040	mg/Kg wet	0.100		98.2	40-140			
4,4'-DDD [2C]	0.097	0.0040	mg/Kg wet	0.100		97.2	40-140			
4,4'-DDE	0.096	0.0040	mg/Kg wet	0.100		95.9	40-140			
4,4'-DDE [2C]	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140			
4,4'-DDT	0.099	0.0040	mg/Kg wet	0.100		99.2	40-140			
4,4'-DDT [2C]	0.089	0.0040	mg/Kg wet	0.100		89.0	40-140			
Dieldrin	0.098	0.0040	mg/Kg wet	0.100		98.0	40-140			
Dieldrin [2C]	0.096	0.0040	mg/Kg wet	0.100		96.5	40-140			
Endosulfan I	0.085	0.0050	mg/Kg wet	0.100		84.7	40-140			
Endosulfan I [2C]	0.083	0.0050	mg/Kg wet	0.100		83.4	40-140			
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.4	40-140			
Endosulfan II [2C]	0.089	0.0080	mg/Kg wet	0.100		88.9	40-140			
Endosulfan Sulfate	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endosulfan Sulfate [2C]	0.090	0.0080	mg/Kg wet	0.100		90.4	40-140			
Endrin	0.094	0.0080	mg/Kg wet	0.100		93.8	40-140			
Endrin [2C]	0.090	0.0080	mg/Kg wet	0.100		89.7	40-140			
Endrin Aldehyde	0.087	0.0080	mg/Kg wet	0.100		86.5	40-140			
Endrin Aldehyde [2C]	0.089	0.0080	mg/Kg wet	0.100		88.9	40-140			
Endrin Ketone	0.10	0.0080	mg/Kg wet	0.100		99.9	40-140			
Endrin Ketone [2C]	0.090	0.0080	mg/Kg wet	0.100		89.7	40-140			
Heptachlor	0.090	0.0050	mg/Kg wet	0.100		89.9	40-140			
Heptachlor [2C]	0.082	0.0050	mg/Kg wet	0.100		82.4	40-140			
Heptachlor Epoxide	0.091	0.0050	mg/Kg wet	0.100		91.0	40-140			
Heptachlor Epoxide [2C]	0.085	0.0050	mg/Kg wet	0.100		85.1	40-140			
Hexachlorobenzene	0.10	0.0060	mg/Kg wet	0.100		101	40-140			
Hexachlorobenzene [2C]	0.080	0.0060	mg/Kg wet	0.100		80.1	40-140			
Methoxychlor	0.095	0.050	mg/Kg wet	0.100		95.2	40-140			
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		102	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.161		mg/Kg wet	0.200		80.3	30-150			

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211396 - SW-846 3546										
LCS Dup (B211396-BSD1)										
					Prepared: 08/29/18 Analyzed: 08/31/18					
alpha-Chlordane	0.087	0.0050	mg/Kg wet	0.100		87.3	40-140	2.97	30	
alpha-Chlordane [2C]	0.086	0.0050	mg/Kg wet	0.100		85.5	40-140	2.26	30	
gamma-Chlordane	0.083	0.0050	mg/Kg wet	0.100		83.3	40-140	2.88	30	
gamma-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.0	40-140	2.26	30	
Alachlor	0.099	0.020	mg/Kg wet	0.100		98.6	40-140	3.35	30	
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		94.5	40-140	0.212	30	
Aldrin	0.091	0.0050	mg/Kg wet	0.100		90.7	40-140	2.51	30	
Aldrin [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140	1.37	30	
alpha-BHC	0.074	0.0050	mg/Kg wet	0.100		73.7	40-140	5.17	30	
alpha-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.7	40-140	0.723	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		78.9	40-140	4.54	30	
beta-BHC [2C]	0.069	0.0050	mg/Kg wet	0.100		68.9	40-140	0.539	30	
delta-BHC	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	6.19	30	
delta-BHC [2C]	0.067	0.0050	mg/Kg wet	0.100		67.4	40-140	5.16	30	
gamma-BHC (Lindane)	0.079	0.0020	mg/Kg wet	0.100		78.8	40-140	4.45	30	
gamma-BHC (Lindane) [2C]	0.074	0.0020	mg/Kg wet	0.100		74.4	40-140	0.773	30	
4,4'-DDD	0.095	0.0040	mg/Kg wet	0.100		95.2	40-140	3.04	30	
4,4'-DDD [2C]	0.093	0.0040	mg/Kg wet	0.100		93.1	40-140	4.27	30	
4,4'-DDE	0.093	0.0040	mg/Kg wet	0.100		92.7	40-140	3.36	30	
4,4'-DDE [2C]	0.091	0.0040	mg/Kg wet	0.100		91.2	40-140	3.14	30	
4,4'-DDT	0.096	0.0040	mg/Kg wet	0.100		96.0	40-140	3.26	30	
4,4'-DDT [2C]	0.086	0.0040	mg/Kg wet	0.100		86.5	40-140	2.88	30	
Dieldrin	0.095	0.0040	mg/Kg wet	0.100		95.4	40-140	2.66	30	
Dieldrin [2C]	0.094	0.0040	mg/Kg wet	0.100		93.7	40-140	2.91	30	
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		82.3	40-140	2.83	30	
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		81.7	40-140	2.10	30	
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		87.5	40-140	3.20	30	
Endosulfan II [2C]	0.085	0.0080	mg/Kg wet	0.100		85.2	40-140	4.23	30	
Endosulfan Sulfate	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	4.05	30	
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.0	40-140	3.82	30	
Endrin	0.092	0.0080	mg/Kg wet	0.100		91.6	40-140	2.34	30	
Endrin [2C]	0.087	0.0080	mg/Kg wet	0.100		86.7	40-140	3.38	30	
Endrin Aldehyde	0.086	0.0080	mg/Kg wet	0.100		85.7	40-140	0.959	30	
Endrin Aldehyde [2C]	0.086	0.0080	mg/Kg wet	0.100		85.5	40-140	3.85	30	
Endrin Ketone	0.095	0.0080	mg/Kg wet	0.100		94.9	40-140	5.16	30	
Endrin Ketone [2C]	0.086	0.0080	mg/Kg wet	0.100		85.9	40-140	4.39	30	
Heptachlor	0.087	0.0050	mg/Kg wet	0.100		87.2	40-140	3.02	30	
Heptachlor [2C]	0.082	0.0050	mg/Kg wet	0.100		81.9	40-140	0.653	30	
Heptachlor Epoxide	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140	2.23	30	
Heptachlor Epoxide [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140	1.82	30	
Hexachlorobenzene	0.095	0.0060	mg/Kg wet	0.100		95.2	40-140	5.54	30	
Hexachlorobenzene [2C]	0.079	0.0060	mg/Kg wet	0.100		78.6	40-140	1.93	30	
Methoxychlor	0.092	0.050	mg/Kg wet	0.100		91.6	40-140	3.78	30	
Methoxychlor [2C]	0.097	0.050	mg/Kg wet	0.100		96.7	40-140	5.44	30	
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.200		79.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211396 - SW-846 3546										
Matrix Spike (B211396-MS1)	Source: 18H1308-02			Prepared: 08/29/18 Analyzed: 09/02/18						
Alachlor	0.12	0.21	mg/Kg dry	0.106	ND	112	30-150			
Alachlor [2C]	0.12	0.21	mg/Kg dry	0.106	ND	116	30-150			
Aldrin	0.093	0.053	mg/Kg dry	0.106	ND	87.3	30-150			
Aldrin [2C]	0.086	0.053	mg/Kg dry	0.106	ND	81.2	30-150			
alpha-BHC	0.085	0.053	mg/Kg dry	0.106	ND	79.8	30-150			
alpha-BHC [2C]	0.076	0.053	mg/Kg dry	0.106	ND	71.1	30-150			
beta-BHC	0.089	0.053	mg/Kg dry	0.106	ND	84.0	30-150			
beta-BHC [2C]	0.082	0.053	mg/Kg dry	0.106	ND	77.0	30-150			
delta-BHC	0.087	0.053	mg/Kg dry	0.106	ND	81.7	30-150			
delta-BHC [2C]	0.079	0.053	mg/Kg dry	0.106	ND	74.3	30-150			
gamma-BHC (Lindane)	0.089	0.021	mg/Kg dry	0.106	ND	83.6	30-150			
gamma-BHC (Lindane) [2C]	0.082	0.021	mg/Kg dry	0.106	ND	77.4	30-150			
4,4'-DDD	0.086	0.043	mg/Kg dry	0.106	ND	80.5	30-150			V-06
4,4'-DDD [2C]	0.093	0.043	mg/Kg dry	0.106	ND	87.1	30-150			
4,4'-DDE	0.081	0.043	mg/Kg dry	0.106	ND	76.0	30-150			V-06
4,4'-DDE [2C]	0.095	0.043	mg/Kg dry	0.106	ND	89.0	30-150			R-06
4,4'-DDT	0.095	0.043	mg/Kg dry	0.106	ND	89.6	30-150			V-06
4,4'-DDT [2C]	0.095	0.043	mg/Kg dry	0.106	ND	89.3	30-150			
Dieldrin	0.094	0.043	mg/Kg dry	0.106	ND	88.0	30-150			
Dieldrin [2C]	0.10	0.043	mg/Kg dry	0.106	ND	93.7	30-150			
Endosulfan I	0.086	0.053	mg/Kg dry	0.106	ND	80.4	30-150			
Endosulfan I [2C]	0.087	0.053	mg/Kg dry	0.106	ND	81.2	30-150			
Endosulfan II	0.086	0.085	mg/Kg dry	0.106	ND	80.8	30-150			
Endosulfan II [2C]	0.091	0.085	mg/Kg dry	0.106	ND	85.3	30-150			
Endosulfan Sulfate	0.083	0.085	mg/Kg dry	0.106	ND	78.2	30-150			
Endosulfan Sulfate [2C]	0.088	0.085	mg/Kg dry	0.106	ND	82.7	30-150			
Endrin	0.093	0.085	mg/Kg dry	0.106	ND	87.2	30-150			
Endrin [2C]	0.087	0.085	mg/Kg dry	0.106	ND	81.6	30-150			
Endrin Aldehyde	0.080	0.085	mg/Kg dry	0.106	ND	75.0	30-150			
Endrin Aldehyde [2C]	0.085	0.085	mg/Kg dry	0.106	ND	79.8	30-150			
Endrin Ketone	0.095	0.085	mg/Kg dry	0.106	ND	89.4	30-150			
Endrin Ketone [2C]	0.098	0.085	mg/Kg dry	0.106	ND	92.0	30-150			
Heptachlor	0.095	0.053	mg/Kg dry	0.106	ND	89.2	30-150			
Heptachlor [2C]	0.090	0.053	mg/Kg dry	0.106	ND	84.1	30-150			
Heptachlor Epoxide	0.093	0.053	mg/Kg dry	0.106	ND	87.7	30-150			
Heptachlor Epoxide [2C]	0.091	0.053	mg/Kg dry	0.106	ND	85.3	30-150			
Hexachlorobenzene	0.11	0.064	mg/Kg dry	0.106	ND	99.1	30-150			V-06
Hexachlorobenzene [2C]	0.092	0.064	mg/Kg dry	0.106	ND	86.0	30-150			
Methoxychlor	0.098	0.53	mg/Kg dry	0.106	ND	91.9	30-150			
Methoxychlor [2C]	0.11	0.53	mg/Kg dry	0.106	ND	102	30-150			
Surrogate: Decachlorobiphenyl	0.185		mg/Kg dry	0.213		86.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg dry	0.213		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg dry	0.213		87.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg dry	0.213		79.6	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211396 - SW-846 3546										
Matrix Spike Dup (B211396-MSD1)										
		Source: 18H1308-02			Prepared: 08/29/18 Analyzed: 09/02/18					
Alachlor	0.11	0.21	mg/Kg dry	0.103	ND	102	30-150	11.9	30	
Alachlor [2C]	0.11	0.21	mg/Kg dry	0.103	ND	107	30-150	10.2	30	
Aldrin	0.079	0.052	mg/Kg dry	0.103	ND	76.3	30-150	16.4	30	
Aldrin [2C]	0.072	0.052	mg/Kg dry	0.103	ND	69.6	30-150	18.3	30	
alpha-BHC	0.070	0.052	mg/Kg dry	0.103	ND	67.2	30-150	20.0	30	
alpha-BHC [2C]	0.063	0.052	mg/Kg dry	0.103	ND	61.3	30-150	17.7	30	
beta-BHC	0.069	0.052	mg/Kg dry	0.103	ND	66.8	30-150	25.7	30	
beta-BHC [2C]	0.068	0.052	mg/Kg dry	0.103	ND	65.8	30-150	18.5	30	
delta-BHC	0.074	0.052	mg/Kg dry	0.103	ND	72.0	30-150	15.5	30	
delta-BHC [2C]	0.067	0.052	mg/Kg dry	0.103	ND	65.0	30-150	16.2	30	
gamma-BHC (Lindane)	0.074	0.021	mg/Kg dry	0.103	ND	71.4	30-150	18.7	30	
gamma-BHC (Lindane) [2C]	0.070	0.021	mg/Kg dry	0.103	ND	68.0	30-150	15.9	30	
4,4'-DDD	0.070	0.041	mg/Kg dry	0.103	ND	67.8	30-150	20.0	30	V-06
4,4'-DDD [2C]	0.082	0.041	mg/Kg dry	0.103	ND	79.0	30-150	12.7	30	
4,4'-DDE	0.069	0.041	mg/Kg dry	0.103	ND	67.0	30-150	15.6	30	V-06
4,4'-DDE [2C]	0.070	0.041	mg/Kg dry	0.103	ND	67.5	30-150	30.4 *	30	R-06
4,4'-DDT	0.094	0.041	mg/Kg dry	0.103	ND	91.4	30-150	0.959	30	V-06
4,4'-DDT [2C]	0.082	0.041	mg/Kg dry	0.103	ND	79.6	30-150	14.4	30	
Dieldrin	0.078	0.041	mg/Kg dry	0.103	ND	75.5	30-150	18.2	30	
Dieldrin [2C]	0.081	0.041	mg/Kg dry	0.103	ND	78.4	30-150	20.6	30	
Endosulfan I	0.073	0.052	mg/Kg dry	0.103	ND	70.7	30-150	15.8	30	
Endosulfan I [2C]	0.064	0.052	mg/Kg dry	0.103	ND	62.3	30-150	29.3	30	
Endosulfan II	0.073	0.083	mg/Kg dry	0.103	ND	70.6	30-150	16.4	30	
Endosulfan II [2C]	0.085	0.083	mg/Kg dry	0.103	ND	82.1	30-150	6.76	30	
Endosulfan Sulfate	0.092	0.083	mg/Kg dry	0.103	ND	89.1	30-150	10.1	30	
Endosulfan Sulfate [2C]	0.089	0.083	mg/Kg dry	0.103	ND	85.9	30-150	0.940	30	
Endrin	0.098	0.083	mg/Kg dry	0.103	ND	95.0	30-150	5.64	30	
Endrin [2C]	0.071	0.083	mg/Kg dry	0.103	ND	68.2	30-150	20.8	30	
Endrin Aldehyde	0.071	0.083	mg/Kg dry	0.103	ND	69.0	30-150	11.3	30	
Endrin Aldehyde [2C]	0.080	0.083	mg/Kg dry	0.103	ND	77.2	30-150	6.19	30	
Endrin Ketone	0.095	0.083	mg/Kg dry	0.103	ND	91.8	30-150	0.334	30	
Endrin Ketone [2C]	0.086	0.083	mg/Kg dry	0.103	ND	83.4	30-150	12.7	30	
Heptachlor	0.081	0.052	mg/Kg dry	0.103	ND	78.8	30-150	15.3	30	
Heptachlor [2C]	0.073	0.052	mg/Kg dry	0.103	ND	70.2	30-150	20.9	30	
Heptachlor Epoxide	0.079	0.052	mg/Kg dry	0.103	ND	76.3	30-150	16.9	30	
Heptachlor Epoxide [2C]	0.077	0.052	mg/Kg dry	0.103	ND	74.0	30-150	17.0	30	
Hexachlorobenzene	0.096	0.062	mg/Kg dry	0.103	ND	93.1	30-150	9.19	30	V-06
Hexachlorobenzene [2C]	0.084	0.062	mg/Kg dry	0.103	ND	81.5	30-150	8.31	30	
Methoxychlor	0.088	0.52	mg/Kg dry	0.103	ND	85.4	30-150	10.2	30	
Methoxychlor [2C]	0.15	0.52	mg/Kg dry	0.103	ND	141	30-150	28.6	30	
Surrogate: Decachlorobiphenyl	0.176		mg/Kg dry	0.207		84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg dry	0.207		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.163		mg/Kg dry	0.207		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.155		mg/Kg dry	0.207		74.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211395 - SW-846 3546										
Blank (B211395-BLK1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.211		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.6	30-150			
LCS (B211395-BS1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.8	40-140			
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1260 [2C]	0.21	0.020	mg/Kg wet	0.200		105	40-140			
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.225		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		105	30-150			
LCS Dup (B211395-BSD1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.6	40-140	8.72	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140	11.0	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	10.2	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.2	40-140	10.2	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.200		94.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211395 - SW-846 3546

Matrix Spike (B211395-MS1)

Source: 18H1308-01

Prepared: 08/29/18 Analyzed: 08/30/18

Aroclor-1016	0.22	0.087	mg/Kg dry	0.217	ND	101	40-140			
Aroclor-1016 [2C]	0.22	0.087	mg/Kg dry	0.217	ND	104	40-140			
Aroclor-1260	0.22	0.087	mg/Kg dry	0.217	ND	101	40-140			
Aroclor-1260 [2C]	0.23	0.087	mg/Kg dry	0.217	ND	105	40-140			
Surrogate: Decachlorobiphenyl	0.197		mg/Kg dry	0.217		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg dry	0.217		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.206		mg/Kg dry	0.217		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg dry	0.217		97.0	30-150			

Matrix Spike Dup (B211395-MSD1)

Source: 18H1308-01

Prepared: 08/29/18 Analyzed: 08/30/18

Aroclor-1016	0.20	0.088	mg/Kg dry	0.219	ND	90.1	40-140	10.9	30	
Aroclor-1016 [2C]	0.20	0.088	mg/Kg dry	0.219	ND	89.4	40-140	14.7	30	
Aroclor-1260	0.19	0.088	mg/Kg dry	0.219	ND	85.4	40-140	16.3	30	
Aroclor-1260 [2C]	0.19	0.088	mg/Kg dry	0.219	ND	84.5	40-140	21.4	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg dry	0.219		78.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg dry	0.219		91.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg dry	0.219		85.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg dry	0.219		86.4	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211241 - SW-846 8151										
Blank (B211241-BLK1)										
Prepared: 08/28/18 Analyzed: 08/31/18										
2,4-D	ND	24	µg/kg wet							
2,4-D [2C]	ND	24	µg/kg wet							
2,4-DB	ND	24	µg/kg wet							
2,4-DB [2C]	ND	24	µg/kg wet							
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet							
2,4,5-T	ND	2.4	µg/kg wet							
2,4,5-T [2C]	ND	2.4	µg/kg wet							
Dalapon	ND	60	µg/kg wet							
Dalapon [2C]	ND	60	µg/kg wet							
Dicamba	ND	2.4	µg/kg wet							
Dicamba [2C]	ND	2.4	µg/kg wet							
Dichloroprop	ND	24	µg/kg wet							
Dichloroprop [2C]	ND	24	µg/kg wet							
Dinoseb	ND	12	µg/kg wet							
Dinoseb [2C]	ND	12	µg/kg wet							
MCPA	ND	2400	µg/kg wet							
MCPA [2C]	ND	2400	µg/kg wet							
MCPP	ND	2400	µg/kg wet							
MCPP [2C]	ND	2400	µg/kg wet							
Surrogate: 2,4-Dichlorophenylacetic acid	65.4		µg/kg wet	95.2		68.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	63.1		µg/kg wet	95.2		66.3	30-150			
LCS (B211241-BS1)										
Prepared: 08/28/18 Analyzed: 08/31/18										
2,4-D	109	25	µg/kg wet	125		87.0	40-140			
2,4-D [2C]	109	25	µg/kg wet	125		87.2	40-140			
2,4-DB	112	25	µg/kg wet	125		89.7	40-140			
2,4-DB [2C]	122	25	µg/kg wet	125		97.4	40-140			
2,4,5-TP (Silvex)	10.6	2.5	µg/kg wet	12.5		84.5	40-140			
2,4,5-TP (Silvex) [2C]	10.8	2.5	µg/kg wet	12.5		86.4	40-140			
2,4,5-T	10.3	2.5	µg/kg wet	12.5		82.6	40-140			
2,4,5-T [2C]	9.87	2.5	µg/kg wet	12.5		79.0	40-140			
Dalapon	191	62	µg/kg wet	312		61.2	40-140			
Dalapon [2C]	190	62	µg/kg wet	312		60.8	40-140			
Dicamba	10.5	2.5	µg/kg wet	12.5		84.3	40-140			
Dicamba [2C]	10.8	2.5	µg/kg wet	12.5		86.3	40-140			
Dichloroprop	111	25	µg/kg wet	125		88.6	40-140			
Dichloroprop [2C]	110	25	µg/kg wet	125		87.8	40-140			
Dinoseb	7.93	12	µg/kg wet	62.5		12.7	0-42.4			
Dinoseb [2C]	8.36	12	µg/kg wet	62.5		13.4	0-41.1			
MCPA	10200	2500	µg/kg wet	12500		81.9	40-140			
MCPA [2C]	9450	2500	µg/kg wet	12500		75.6	40-140			
MCPP	11200	2500	µg/kg wet	12500		89.4	40-140			
MCPP [2C]	9650	2500	µg/kg wet	12500		77.2	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	87.5		µg/kg wet	100		87.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	81.9		µg/kg wet	100		81.9	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211241 - SW-846 8151										
LCS Dup (B211241-BSD1)										
					Prepared: 08/28/18 Analyzed: 08/31/18					
2,4-D	96.6	25	µg/kg wet	125		77.3	40-140	11.8	30	
2,4-D [2C]	101	25	µg/kg wet	125		81.1	40-140	7.25	30	
2,4-DB	98.8	25	µg/kg wet	125		79.0	40-140	12.6	30	
2,4-DB [2C]	109	25	µg/kg wet	125		86.9	40-140	11.4	30	
2,4,5-TP (Silvex)	9.36	2.5	µg/kg wet	12.5		74.9	40-140	12.0	30	
2,4,5-TP (Silvex) [2C]	9.41	2.5	µg/kg wet	12.5		75.3	40-140	13.7	30	
2,4,5-T	9.20	2.5	µg/kg wet	12.5		73.6	40-140	11.5	30	
2,4,5-T [2C]	8.83	2.5	µg/kg wet	12.5		70.6	40-140	11.2	30	
Dalapon	170	62	µg/kg wet	312		54.3	40-140	12.0	30	
Dalapon [2C]	173	62	µg/kg wet	312		55.3	40-140	9.41	30	
Dicamba	9.58	2.5	µg/kg wet	12.5		76.6	40-140	9.50	30	
Dicamba [2C]	9.39	2.5	µg/kg wet	12.5		75.1	40-140	13.8	30	
Dichloroprop	97.5	25	µg/kg wet	125		78.0	40-140	12.8	30	
Dichloroprop [2C]	100	25	µg/kg wet	125		80.0	40-140	9.36	30	
Dinoseb	10.4	12	µg/kg wet	62.5		16.6	0-42.4	26.5	30	
Dinoseb [2C]	11.1	12	µg/kg wet	62.5		17.8	0-41.1	28.4	30	
MCPA	9210	2500	µg/kg wet	12500		73.7	40-140	10.7	30	
MCPA [2C]	8230	2500	µg/kg wet	12500		65.9	40-140	13.7	30	
MCPP	9810	2500	µg/kg wet	12500		78.5	40-140	13.0	30	
MCPP [2C]	8300	2500	µg/kg wet	12500		66.4	40-140	15.0	30	
Surrogate: 2,4-Dichlorophenylacetic acid	75.5		µg/kg wet	100		75.5	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	77.7		µg/kg wet	100		77.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211391 - SW-846 3546										
Blank (B211391-BLK1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
TPH (C9-C36)	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.05		mg/Kg wet	3.33		61.4	40-140			
LCS (B211391-BS1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
TPH (C9-C36)	26.6	8.3	mg/Kg wet	33.3		79.8	40-140			
Surrogate: 2-Fluorobiphenyl	2.70		mg/Kg wet	3.33		81.0	40-140			
LCS Dup (B211391-BSD1)										
Prepared: 08/29/18 Analyzed: 08/30/18										
TPH (C9-C36)	26.1	8.3	mg/Kg wet	33.3		78.3	40-140	1.91	30	
Surrogate: 2-Fluorobiphenyl	2.72		mg/Kg wet	3.33		81.6	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211582 - SW-846 3050B

Blank (B211582-BLK1)

Prepared: 08/31/18 Analyzed: 09/04/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

LCS (B211582-BS1)

Prepared: 08/31/18 Analyzed: 09/04/18

Antimony	69.4	5.0	mg/Kg wet	75.5		91.9	3.8-196			
Arsenic	167	5.0	mg/Kg wet	161		104	83.2-116.8			
Barium	270	5.0	mg/Kg wet	260		104	82.7-117.3			
Beryllium	100	0.50	mg/Kg wet	97.6		103	83.4-116.8			
Cadmium	211	0.50	mg/Kg wet	211		99.9	83.4-116.6			
Chromium	143	0.99	mg/Kg wet	136		105	82.4-117.6			
Lead	114	1.5	mg/Kg wet	111		102	83-117.1			
Nickel	93.6	0.99	mg/Kg wet	91.9		102	82.9-117.5			
Selenium	198	9.9	mg/Kg wet	191		103	79.6-120.9			
Silver	45.4	0.99	mg/Kg wet	43.3		105	79.9-119.9			
Thallium	164	5.0	mg/Kg wet	156		105	81.4-119.2			
Vanadium	56.1	2.0	mg/Kg wet	56.7		99.0	79-121.2			
Zinc	206	2.0	mg/Kg wet	199		103	81.4-119.1			

LCS Dup (B211582-BSD1)

Prepared: 08/31/18 Analyzed: 09/04/18

Antimony	68.7	5.0	mg/Kg wet	75.5		90.9	3.8-196	1.01	30	
Arsenic	164	5.0	mg/Kg wet	161		102	83.2-116.8	2.02	30	
Barium	272	5.0	mg/Kg wet	260		105	82.7-117.3	0.867	30	
Beryllium	99.4	0.50	mg/Kg wet	97.6		102	83.4-116.8	1.01	30	
Cadmium	210	0.50	mg/Kg wet	211		99.6	83.4-116.6	0.311	30	
Chromium	142	0.99	mg/Kg wet	136		104	82.4-117.6	0.475	30	
Lead	111	1.5	mg/Kg wet	111		100	83-117.1	2.27	30	
Nickel	93.1	0.99	mg/Kg wet	91.9		101	82.9-117.5	0.617	30	
Selenium	196	9.9	mg/Kg wet	191		102	79.6-120.9	1.05	30	
Silver	43.9	0.99	mg/Kg wet	43.3		101	79.9-119.9	3.37	30	
Thallium	162	5.0	mg/Kg wet	156		104	81.4-119.2	1.13	30	
Vanadium	57.0	2.0	mg/Kg wet	56.7		101	79-121.2	1.58	30	
Zinc	205	2.0	mg/Kg wet	199		103	81.4-119.1	0.383	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211582 - SW-846 3050B										
MRL Check (B211582-MRL1)					Prepared: 08/31/18 Analyzed: 09/04/18					
Lead	0.497	0.49	mg/Kg wet	0.487		102	80-120			
Batch B211680 - SW-846 7471										
Blank (B211680-BLK1)					Prepared: 09/04/18 Analyzed: 09/05/18					
Mercury	ND	0.025	mg/Kg wet							
LCS (B211680-BS1)					Prepared: 09/04/18 Analyzed: 09/05/18					
Mercury	11.0	1.9	mg/Kg wet	9.36		118	73.7-126.3			
LCS Dup (B211680-BSD1)					Prepared: 09/04/18 Analyzed: 09/05/18					
Mercury	9.61	1.9	mg/Kg wet	9.36		103	73.7-126.3	13.7	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211234 - SW-846 9045C										
LCS (B211234-BS1)				Prepared & Analyzed: 08/27/18						
pH	6.05		pH Units	6.00		101	90-110			
Batch B211264 - SW-846 9014										
Blank (B211264-BLK1)				Prepared: 08/28/18 Analyzed: 08/29/18						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B211264-BS1)				Prepared: 08/28/18 Analyzed: 08/29/18						
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	83.6-111			
Batch B211268 - SW-846 9030A										
Blank (B211268-BLK1)				Prepared: 08/28/18 Analyzed: 08/29/18						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B211268-BS1)				Prepared: 08/28/18 Analyzed: 08/29/18						
Reactive Sulfide	12	2.0	mg/Kg	14.8		78.4	54.9-121			
Batch B211353 - SM21-22 2510B Modified										
Blank (B211353-BLK1)				Prepared & Analyzed: 08/29/18						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B211353-BS1)				Prepared & Analyzed: 08/29/18						
Specific conductance	190		µmhos/cm	192		99.7	90-110			
Batch B211518 - % Solids										
Blank (B211518-BLK1)				Prepared: 08/30/18 Analyzed: 08/31/18						
% Solids	0.00		% Wt							
Blank (B211518-BLK2)				Prepared: 08/30/18 Analyzed: 08/31/18						
% Solids	0.00		% Wt							
Blank (B211518-BLK3)				Prepared: 08/30/18 Analyzed: 08/31/18						
% Solids	0.00		% Wt							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM1 **Analyzed:** 09/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.51
Endrin [1] 3.21

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.58
Endrin [2] 3.41

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM2 **Analyzed:** 09/01/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.58
Endrin [1] 3.23

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.64
Endrin [2] 3.42

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM3 **Analyzed:** 09/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.60
Endrin [1] 1.95

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BREAKDOWN REPORT

Lab Sample ID: S026891-PEM3 **Analyzed:** 09/02/2018

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.65
Endrin [2] 2.05

BREAKDOWN REPORT

Lab Sample ID: S026891-PEM4 **Analyzed:** 09/02/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.64
Endrin [1] 2.05

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.67
Endrin [2] 2.15

BREAKDOWN REPORT

Lab Sample ID: S026900-PEM1 **Analyzed:** 08/31/2018

Column Number: 1
Analyte **% Breakdown**
4,4'-DDT [1] 0.59
Endrin [1] 3.54

Column Number: 2
Analyte **% Breakdown**
4,4'-DDT [2] 0.66
Endrin [2] 3.81

BREAKDOWN REPORT

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S026900-PEM2 Analyzed: 08/31/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.45
Endrin [1]	3.06

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.48
Endrin [2]	3.30

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8151A

Lab Sample ID: B211241-BS1 Date(s) Analyzed: 08/31/2018 08/31/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.036	0.000	0.000	10.3	
	2	15.171	0.000	0.000	9.87	1.3
2,4,5-TP (Silvex)	1	14.432	0.000	0.000	10.6	
	2	14.337	0.000	0.000	10.8	1.8
2,4-D	1	12.655	0.000	0.000	109	
	2	12.654	0.000	0.000	109	0.9
2,4-DB	1	16.207	0.000	0.000	112	
	2	16.276	0.000	0.000	122	10.3
Dalapon	1	4.194	0.000	0.000	191	
	2	3.846	0.000	0.000	190	0.0
Dicamba	1	10.649	0.000	0.000	10.5	
	2	10.534	0.000	0.000	10.8	1.8
Dichloroprop	1	12.171	0.000	0.000	111	
	2	11.996	0.000	0.000	110	0.0
Dinoseb	1	17.293	0.000	0.000	7.93	
	2	16.760	0.000	0.000	8.36	5.7
MCPA	1	11.431	0.000	0.000	10200	
	2	11.340	0.000	0.000	9450	5.7
MCPD	1	11.121	0.000	0.000	11200	
	2	10.863	0.000	0.000	9650	13.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8151A

Lab Sample ID: B211241-BSD1 Date(s) Analyzed: 08/31/2018 08/31/2018

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	15.032	0.000	0.000	9.20	
	2	15.173	0.000	0.000	8.83	4.1
2,4,5-TP (Silvex)	1	14.431	0.000	0.000	9.36	
	2	14.338	0.000	0.000	9.41	0.1
2,4-D	1	12.654	0.000	0.000	96.6	
	2	12.655	0.000	0.000	101	4.0
2,4-DB	1	16.206	0.000	0.000	98.8	
	2	16.277	0.000	0.000	109	9.6
Dalapon	1	4.193	0.000	0.000	170	
	2	3.845	0.000	0.000	173	1.8
Dicamba	1	10.648	0.000	0.000	9.58	
	2	10.532	0.000	0.000	9.39	2.2
Dichloroprop	1	12.171	0.000	0.000	97.5	
	2	11.995	0.000	0.000	100	2.0
Dinoseb	1	17.293	0.000	0.000	10.4	
	2	16.760	0.000	0.000	11.1	10.4
MCPA	1	11.428	0.000	0.000	9210	
	2	11.336	0.000	0.000	8230	11.1
MCPD	1	11.118	0.000	0.000	9810	
	2	10.861	0.000	0.000	8300	16.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B211395-BS1 Date(s) Analyzed: 08/30/2018 08/30/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.22	9.5
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.21	10.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B211395-BSD1 Date(s) Analyzed: 08/30/2018 08/30/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.19	11.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B211395-MS1 Date(s) Analyzed: 08/30/2018 08/30/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.22	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.23	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B211395-MSD1 Date(s) Analyzed: 08/30/2018 08/30/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.20	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211396-BS1 Date(s) Analyzed: 08/31/2018 08/31/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.268	7.239	7.299	0.098	
	2	7.352	7.324	7.384	0.097	1.0
4,4'-DDE	1	6.829	6.800	6.860	0.096	
	2	6.918	6.889	6.949	0.094	2.1
4,4'-DDT	1	7.482	7.453	7.513	0.099	
	2	7.593	7.564	7.624	0.089	10.6
Alachlor	1	6.261	6.232	6.292	0.10	
	2	6.093	6.063	6.123	0.095	5.1
Aldrin	1	6.173	6.144	6.204	0.093	
	2	6.156	6.127	6.187	0.085	9.0
alpha-BHC	1	5.462	5.434	5.494	0.078	
	2	5.444	5.415	5.475	0.070	10.8
alpha-Chlordane	1	6.774	6.745	6.805	0.090	
	2	6.790	6.761	6.821	0.087	3.4
beta-BHC	1	5.712	5.683	5.743	0.083	
	2	5.716	5.687	5.747	0.069	18.4
delta-BHC	1	5.827	5.799	5.859	0.084	
	2	5.904	5.874	5.934	0.071	16.8
Dieldrin	1	7.046	7.017	7.077	0.098	
	2	7.031	7.002	7.062	0.096	2.1
Endosulfan I	1	6.871	6.842	6.902	0.085	
	2	6.830	6.801	6.861	0.083	2.4
Endosulfan II	1	7.383	7.355	7.415	0.090	
	2	7.419	7.391	7.451	0.089	1.1
Endosulfan Sulfate	1	8.029	8.001	8.061	0.10	
	2	7.899	7.870	7.930	0.090	10.5
Endrin	1	7.217	7.188	7.248	0.094	
	2	7.257	7.228	7.288	0.090	4.4
Endrin Aldehyde	1	7.700	7.673	7.733	0.087	
	2	7.682	7.653	7.713	0.089	2.3
Endrin Ketone	1	8.221	8.194	8.254	0.10	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8081B

Lab Sample ID: B211396-BS1 Date(s) Analyzed: 08/31/2018 08/31/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.269	8.240	8.300	0.090	10.5
gamma-BHC (Lindane)	1	5.660	5.631	5.691	0.082	
	2	5.663	5.633	5.693	0.075	8.9
gamma-Chlordane	1	6.678	6.650	6.710	0.086	
	2	6.685	6.656	6.716	0.087	1.2
Heptachlor	1	5.971	5.942	6.002	0.090	
	2	5.943	5.914	5.974	0.082	9.3
Heptachlor Epoxide	1	6.589	6.561	6.621	0.091	
	2	6.551	6.522	6.582	0.085	6.8
Hexachlorobenzene	1	5.360	5.331	5.391	0.10	
	2	5.358	5.328	5.388	0.080	22.2
Methoxychlor	1	7.860	7.832	7.892	0.095	
	2	8.122	8.093	8.153	0.10	5.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B211396-BSD1 Date(s) Analyzed: 08/31/2018 08/31/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.268	7.239	7.299	0.095	
	2	7.353	7.324	7.384	0.093	2.1
4,4'-DDE	1	6.829	6.800	6.860	0.093	
	2	6.918	6.889	6.949	0.091	2.2
4,4'-DDT	1	7.481	7.453	7.513	0.096	
	2	7.594	7.564	7.624	0.086	11.0
Alachlor	1	6.261	6.232	6.292	0.099	
	2	6.093	6.063	6.123	0.095	4.1
Aldrin	1	6.173	6.144	6.204	0.091	
	2	6.157	6.127	6.187	0.084	8.0
alpha-BHC	1	5.463	5.434	5.494	0.074	
	2	5.444	5.415	5.475	0.070	5.6
alpha-Chlordane	1	6.774	6.745	6.805	0.087	
	2	6.791	6.761	6.821	0.086	1.2
beta-BHC	1	5.712	5.683	5.743	0.079	
	2	5.716	5.687	5.747	0.069	13.5
delta-BHC	1	5.827	5.799	5.859	0.079	
	2	5.904	5.874	5.934	0.067	16.4
Dieldrin	1	7.045	7.017	7.077	0.095	
	2	7.032	7.002	7.062	0.094	1.1
Endosulfan I	1	6.870	6.842	6.902	0.082	
	2	6.831	6.801	6.861	0.082	0.0
Endosulfan II	1	7.383	7.355	7.415	0.088	
	2	7.420	7.391	7.451	0.085	3.5
Endosulfan Sulfate	1	8.029	8.001	8.061	0.097	
	2	7.900	7.870	7.930	0.087	10.9
Endrin	1	7.217	7.188	7.248	0.092	
	2	7.257	7.228	7.288	0.087	5.6
Endrin Aldehyde	1	7.700	7.673	7.733	0.086	
	2	7.683	7.653	7.713	0.086	0.0
Endrin Ketone	1	8.222	8.194	8.254	0.095	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8081B

Lab Sample ID: B211396-BSD1 Date(s) Analyzed: 08/31/2018 08/31/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.270	8.240	8.300	0.086	9.9
gamma-BHC (Lindane)	1	5.660	5.631	5.691	0.079	
	2	5.663	5.633	5.693	0.074	6.5
gamma-Chlordane	1	6.678	6.650	6.710	0.083	
	2	6.686	6.656	6.716	0.085	2.4
Heptachlor	1	5.971	5.942	6.002	0.087	
	2	5.943	5.914	5.974	0.082	5.9
Heptachlor Epoxide	1	6.589	6.561	6.621	0.089	
	2	6.552	6.522	6.582	0.084	5.8
Hexachlorobenzene	1	5.360	5.331	5.391	0.095	
	2	5.358	5.328	5.388	0.079	18.4
Methoxychlor	1	7.860	7.832	7.892	0.092	
	2	8.123	8.093	8.153	0.097	5.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike

SW-846 8081B

Lab Sample ID: B211396-MS1 Date(s) Analyzed: 09/02/2018 09/02/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.262	7.234	7.294	0.086	
	2	7.350	7.321	7.381	0.093	7.8
4,4'-DDE	1	6.823	6.795	6.855	0.081	
	2	6.915	6.887	6.947	0.095	15.9
4,4'-DDT	1	7.475	7.447	7.507	0.095	
	2	7.590	7.561	7.621	0.095	0.0
Alachlor	1	6.256	6.228	6.288	0.12	
	2	6.091	6.062	6.122	0.12	0.0
Aldrin	1	6.168	6.139	6.199	0.093	
	2	6.154	6.125	6.185	0.086	7.8
alpha-BHC	1	5.458	5.430	5.490	0.085	
	2	5.442	5.413	5.473	0.076	11.2
beta-BHC	1	5.708	5.679	5.739	0.089	
	2	5.714	5.685	5.745	0.082	8.2
delta-BHC	1	5.823	5.794	5.854	0.087	
	2	5.901	5.873	5.933	0.079	9.6
Dieldrin	1	7.040	7.012	7.072	0.094	
	2	7.028	7.000	7.060	0.10	6.2
Endosulfan I	1	6.865	6.837	6.897	0.086	
	2	6.828	6.799	6.859	0.087	1.2
Endosulfan II	1	7.377	7.349	7.409	0.086	
	2	7.416	7.387	7.447	0.091	5.7
Endosulfan Sulfate	1	8.023	7.995	8.055	0.083	
	2	7.897	7.868	7.928	0.088	5.9
Endrin	1	7.211	7.183	7.243	0.093	
	2	7.254	7.225	7.285	0.087	6.7
Endrin Aldehyde	1	7.694	7.667	7.727	0.080	
	2	7.679	7.650	7.710	0.085	6.1
Endrin Ketone	1	8.217	8.189	8.249	0.095	
	2	8.267	8.238	8.298	0.098	3.1
gamma-BHC (Lindane)	1	5.656	5.627	5.687	0.089	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike

Lab Sample ID: B211396-MS1 Date(s) Analyzed: 09/02/2018 09/02/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.661	5.631	5.691	0.082	8.2
Heptachlor	1	5.965	5.938	5.998	0.095	
	2	5.940	5.912	5.972	0.090	5.4
Heptachlor Epoxide	1	6.584	6.555	6.615	0.093	
	2	6.549	6.520	6.580	0.091	2.2
Hexachlorobenzene	1	5.356	5.327	5.387	0.11	
	2	5.356	5.326	5.386	0.092	17.8
Methoxychlor	1	7.855	7.826	7.886	0.098	
	2	8.120	8.091	8.151	0.11	11.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8081B

Lab Sample ID: B211396-MSD1 Date(s) Analyzed: 09/02/2018 09/02/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.263	7.234	7.294	0.070	
	2	7.350	7.321	7.381	0.082	15.8
4,4'-DDE	1	6.824	6.795	6.855	0.069	
	2	6.916	6.887	6.947	0.070	1.4
4,4'-DDT	1	7.476	7.447	7.507	0.094	
	2	7.591	7.561	7.621	0.082	14.7
Alachlor	1	6.257	6.228	6.288	0.11	
	2	6.091	6.062	6.122	0.11	0.0
Aldrin	1	6.168	6.139	6.199	0.079	
	2	6.155	6.125	6.185	0.072	9.3
alpha-BHC	1	5.458	5.430	5.490	0.070	
	2	5.442	5.413	5.473	0.063	10.5
beta-BHC	1	5.708	5.679	5.739	0.069	
	2	5.714	5.685	5.745	0.068	1.5
delta-BHC	1	5.822	5.794	5.854	0.074	
	2	5.902	5.873	5.933	0.067	11.3
Dieldrin	1	7.041	7.012	7.072	0.078	
	2	7.028	7.000	7.060	0.081	3.8
Endosulfan I	1	6.866	6.837	6.897	0.073	
	2	6.829	6.799	6.859	0.064	13.1
Endosulfan II	1	7.378	7.349	7.409	0.073	
	2	7.417	7.387	7.447	0.085	15.2
Endosulfan Sulfate	1	8.025	7.995	8.055	0.092	
	2	7.896	7.868	7.928	0.089	3.3
Endrin	1	7.212	7.183	7.243	0.098	
	2	7.254	7.225	7.285	0.071	32.0
Endrin Aldehyde	1	7.696	7.667	7.727	0.071	
	2	7.679	7.650	7.710	0.080	11.9
Endrin Ketone	1	8.217	8.189	8.249	0.095	
	2	8.267	8.238	8.298	0.086	9.9
gamma-BHC (Lindane)	1	5.656	5.627	5.687	0.074	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B211396-MSD1 Date(s) Analyzed: 09/02/2018 09/02/2018
 Instrument ID (1): ECD6 Instrument ID (2): ECD6
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.660	5.631	5.691	0.070	5.6
Heptachlor	1	5.966	5.938	5.998	0.081	
	2	5.941	5.912	5.972	0.073	10.4
Heptachlor Epoxide	1	6.584	6.555	6.615	0.079	
	2	6.550	6.520	6.580	0.077	2.6
Hexachlorobenzene	1	5.356	5.327	5.387	0.096	
	2	5.356	5.326	5.386	0.084	13.3
Methoxychlor	1	7.856	7.826	7.886	0.088	
	2	8.122	8.091	8.151	0.15	52.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
H-03	Sample received after recommended holding time was exceeded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
O-32	A dilution was performed as part of the standard analytical procedure.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8151A in Water	
2,4-D	ME,NC,NH,CT,NY,VA
2,4-D [2C]	ME,NC,NH,CT,NY,VA
2,4-DB	ME,NC,NH,CT,NY,VA
2,4-DB [2C]	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex)	ME,NC,NH,CT,NY,VA
2,4,5-TP (Silvex) [2C]	ME,NC,NH,CT,NY,VA
2,4,5-T	ME,NC,NH,CT,NY,VA
2,4,5-T [2C]	ME,NC,NH,CT,NY,VA
Dalapon	ME,NC,NH,CT,NY,VA
Dalapon [2C]	ME,NC,NH,CT,NY,VA
Dicamba	ME,NC,NH,CT,NY,VA
Dicamba [2C]	ME,NC,NH,CT,NY,VA
Dichloroprop	ME,NC,NH,CT,NY,VA
Dichloroprop [2C]	ME,NC,NH,CT,NY,VA
Dinoseb	ME,NC,NH,CT,NY,VA
Dinoseb [2C]	ME,NC,NH,CT,NY,VA
MCPA	NC,CT

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8151A in Water</i>	
MCPA [2C]	NC,CT
MCPP	NC,CT
MCPP [2C]	NC,CT
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
p-Isopropyltoluene (p-Cymene)	NH, NY
Methyl tert-Butyl Ether (MTBE)	NH, NY
Methylene Chloride	CT, NH, NY, ME
4-Methyl-2-pentanone (MIBK)	CT, NH, NY
Naphthalene	NH, NY, ME
n-Propylbenzene	NH, NY
Styrene	CT, NH, NY, ME
1,1,1,2-Tetrachloroethane	CT, NH, NY, ME
1,1,2,2-Tetrachloroethane	CT, NH, NY, ME
Tetrachloroethylene	CT, NH, NY, ME
Toluene	CT, NH, NY, ME
1,2,3-Trichlorobenzene	NY
1,2,4-Trichlorobenzene	NH, NY, ME
1,1,1-Trichloroethane	CT, NH, NY, ME
1,1,2-Trichloroethane	CT, NH, NY, ME
Trichloroethylene	CT, NH, NY, ME
Trichlorofluoromethane (Freon 11)	CT, NH, NY, ME
1,2,3-Trichloropropane	NH, NY, ME
1,2,4-Trimethylbenzene	CT, NH, NY, ME
1,3,5-Trimethylbenzene	CT, NH, NY, ME
Vinyl Chloride	CT, NH, NY, ME
m+p Xylene	CT, NH, NY, ME
o-Xylene	CT, NH, NY, ME
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT, NY, NH
Acenaphthylene	CT, NY, NH
Acetophenone	NY, NH
Aniline	NY, NH
Anthracene	CT, NY, NH
Benzo(a)anthracene	CT, NY, NH
Benzo(a)pyrene	CT, NY, NH
Benzo(b)fluoranthene	CT, NY, NH
Benzo(g,h,i)perylene	CT, NY, NH
Benzo(k)fluoranthene	CT, NY, NH
Bis(2-chloroethoxy)methane	CT, NY, NH
Bis(2-chloroethyl)ether	CT, NY, NH
Bis(2-chloroisopropyl)ether	CT, NY, NH
Bis(2-Ethylhexyl)phthalate	CT, NY, NH
4-Bromophenylphenylether	CT, NY, NH
Butylbenzylphthalate	CT, NY, NH
4-Chloroaniline	CT, NY, NH
2-Chloronaphthalene	CT, NY, NH
2-Chlorophenol	CT, NY, NH
Chrysene	CT, NY, NH
Dibenz(a,h)anthracene	CT, NY, NH
Dibenzofuran	CT, NY, NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



1841308

Required Client/Supplier Information

Due Date: 7-Day 10-Day

Analysis Requested: 1-Day 3-Day 4-Day

Format: PDF EXCEL

Other:

CLP Like Data Pkg Required:

Email To: *prose@prose.com*

Fax To #: _____

Project Location: *Walnut Street*

Project Number: *1970.00*

Project Manager: *Fai Minkity*

Con-Test Quote Name/Number: _____

Invoice Recipient: _____

Sampled By: *FIC*

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Mail	Matrix Code	Core Code
1	MP-8	8/20/18	1200	X	X	S	U
3	MP-7	8/20/18	1445	X	X	S	U
0	MP-16	8/23/18	1720	X	X	S	U

ANALYSIS REQUESTED

<input checked="" type="checkbox"/>	Volatility, Conductivity	<input checked="" type="checkbox"/>	Best/Head	<input checked="" type="checkbox"/>	SVOCs, PCB, TPH	<input checked="" type="checkbox"/>	Volts, Methyl Metals	<input checked="" type="checkbox"/>	Reactive Sulfide	<input checked="" type="checkbox"/>	Reactive Cyanide
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Comments:

20 x Rde for TCR
Vols Frozen on sample date

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *[Signature]* Date/Time: *8/18 1130*

Received by: (signature) *[Signature]* Date/Time: *8/27/18 1130*

Relinquished by: (signature) *[Signature]* Date/Time: *8/27/18 1445*

Received by: (signature) *[Signature]* Date/Time: *8-27-18 14.45*

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Special Requirements

MA MJP Required

MJP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State Pkg Required

PAUSD # _____

DL F-026 8.27.18 @ 14.45

www.contestlabs.com

of Containers _____

Preservation Code _____

Container Code _____

Field Filtered

Lab to Filter

Field Filtered

Lab to Filter

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

PCB ONLY

Soxhlet

Non Soxhlet

Project Entity

Government Municipality MMWA Other

Federal 21 J School Chromatogram

City Brownfield MBTA AIHA-LAP, LLC

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client NB

Received By ESD Date 8-23-18 Time 14:45

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.8
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? None

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? EDF On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-	6	Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: <u>8-23-18 @ 14:45</u>
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments: